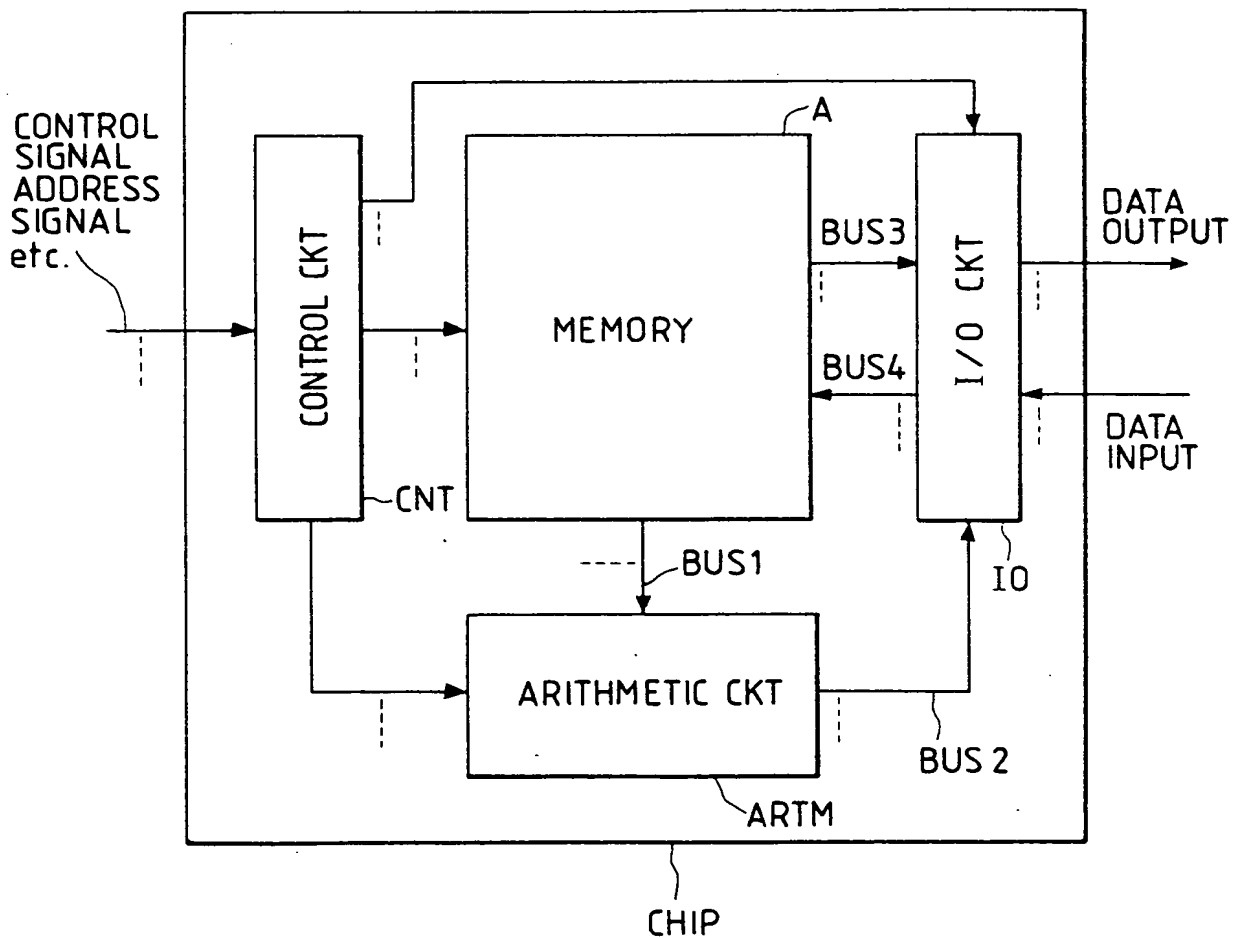


FIG. 1



TOP SECRET

FIG. 2(a)

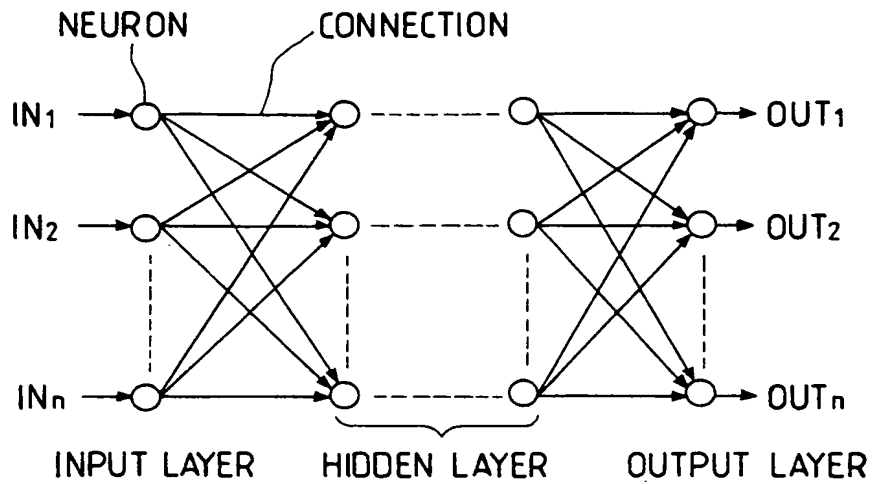


FIG. 2(b)

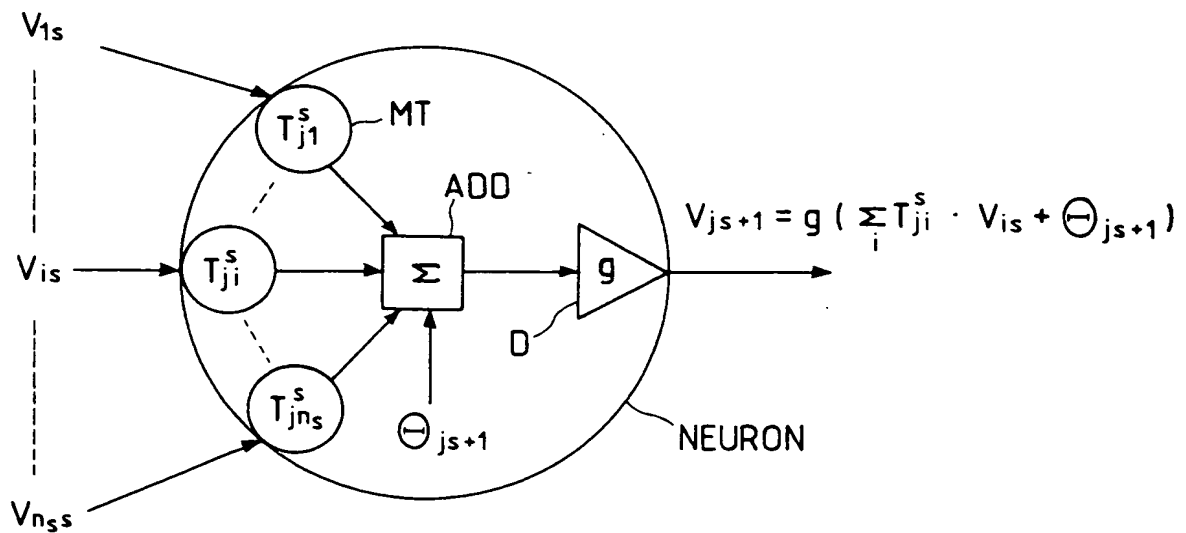


FIG. 2(c)

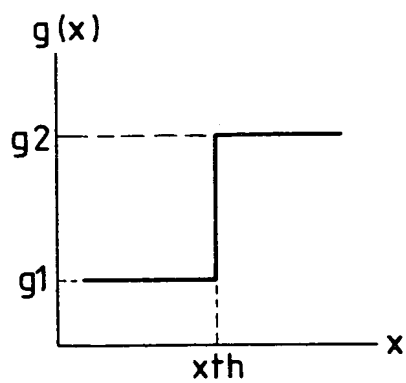


FIG. 2(d)

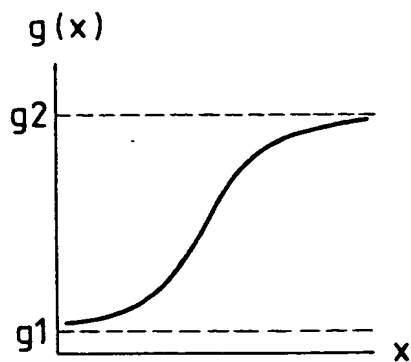


FIG. 3(a)

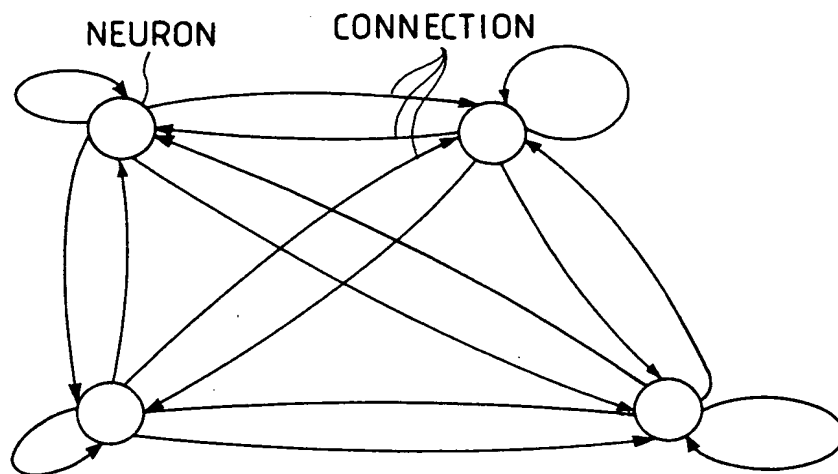


FIG. 3(b)

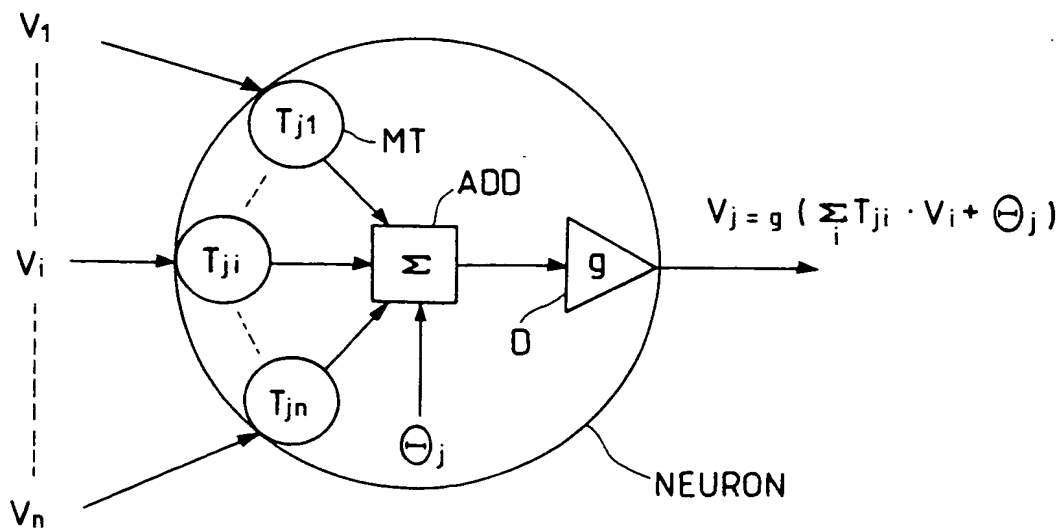
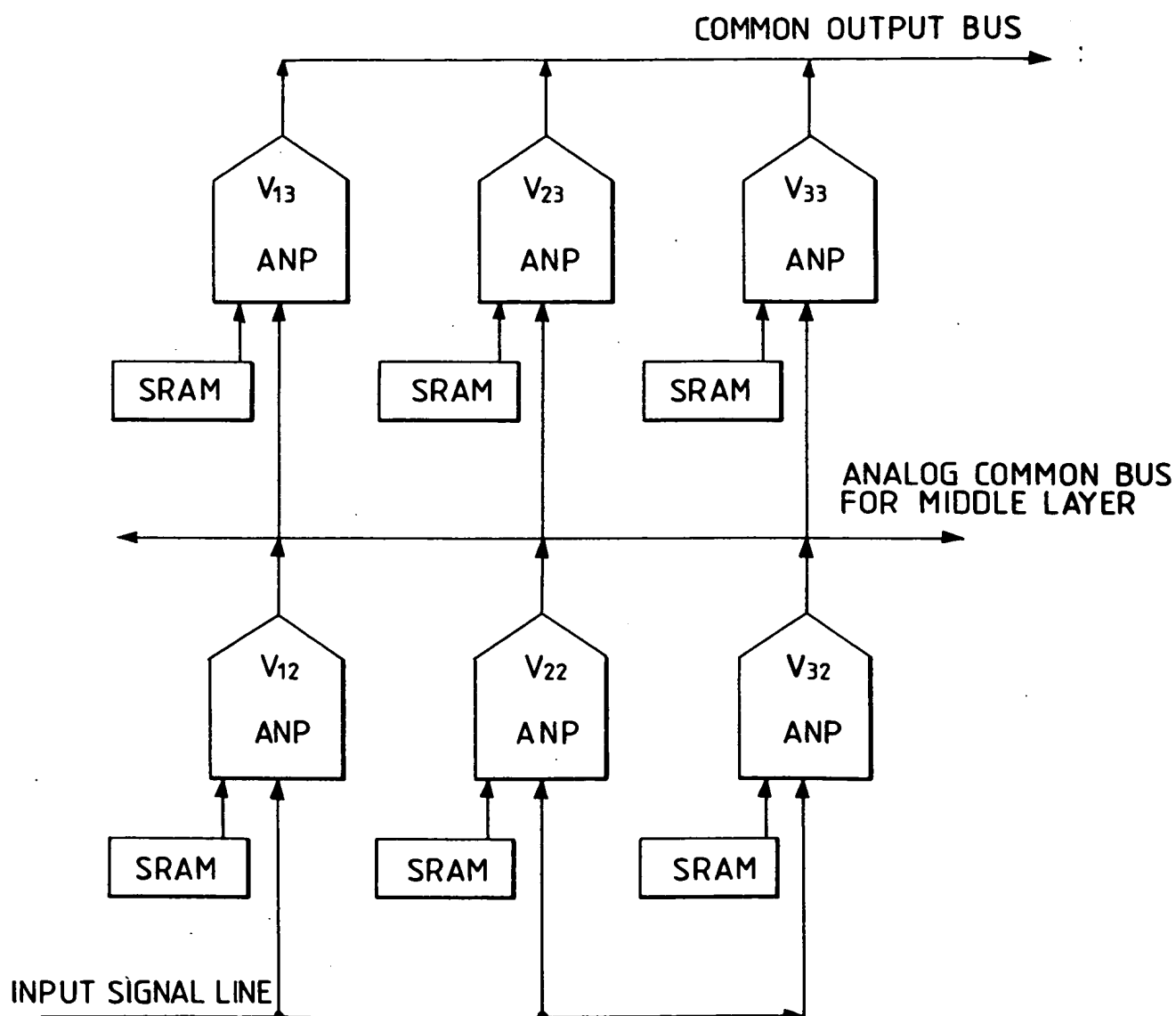


FIG. 4 PRIOR ART



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FIG. 5(a)

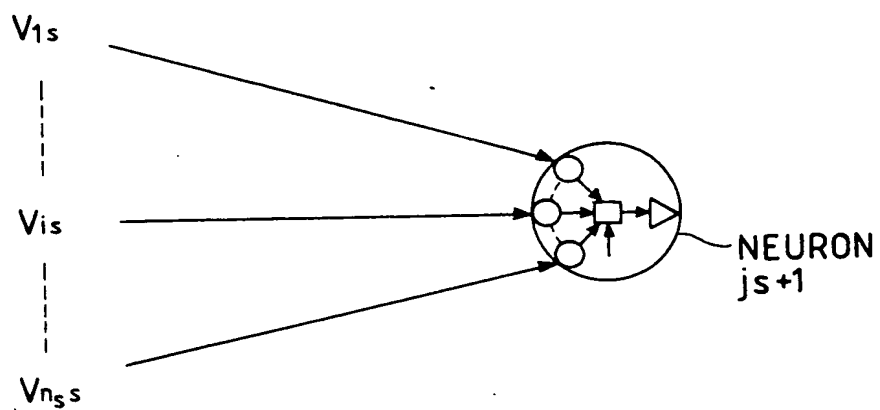
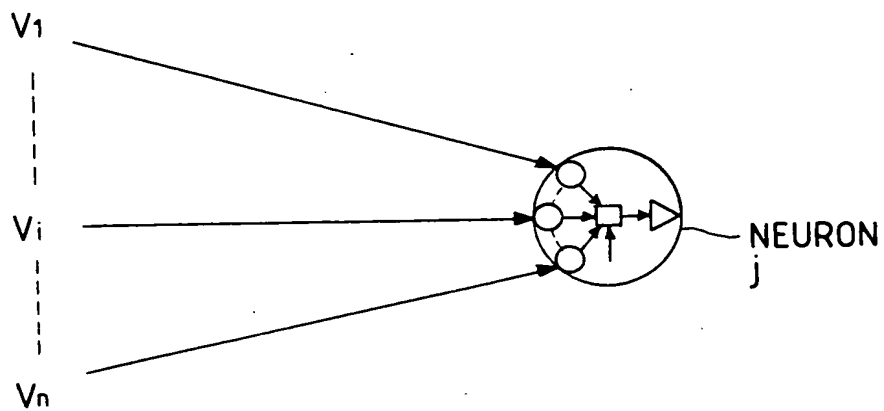


FIG. 5(b)



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FIG. 5(a)

FIG. 6(a)

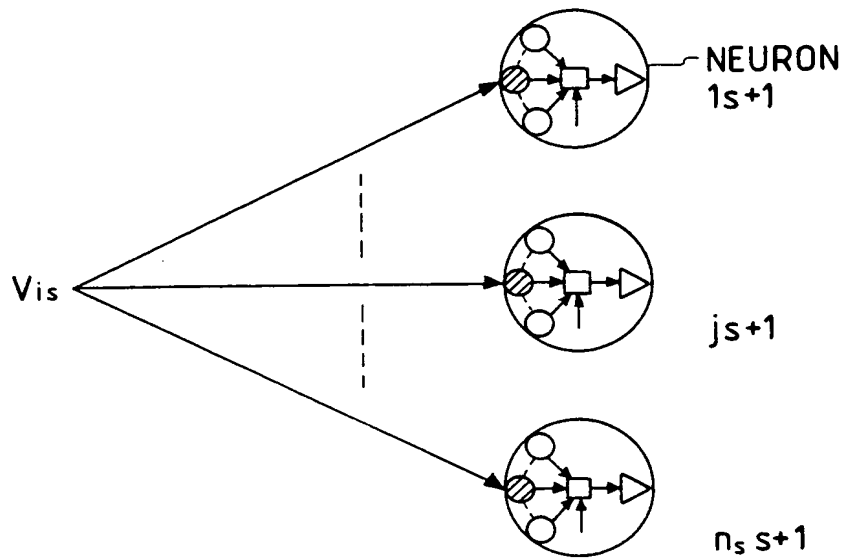


FIG. 6(b)

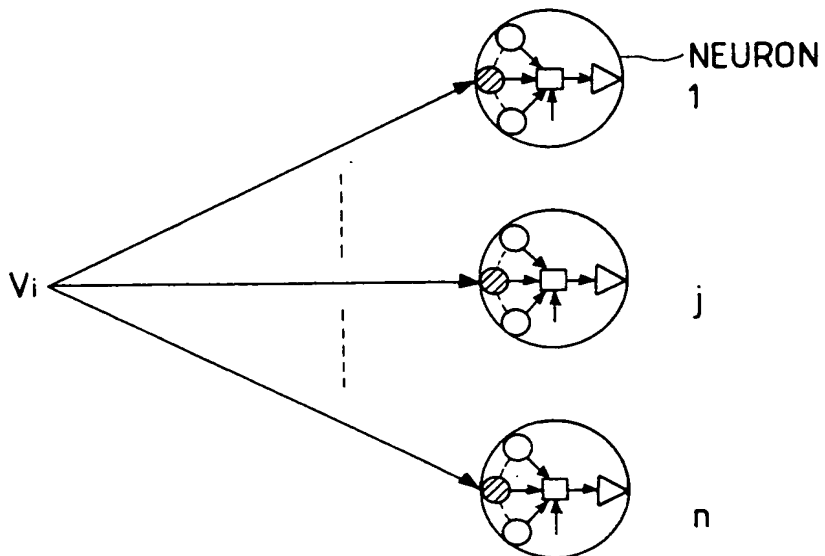


FIG. 7(a)

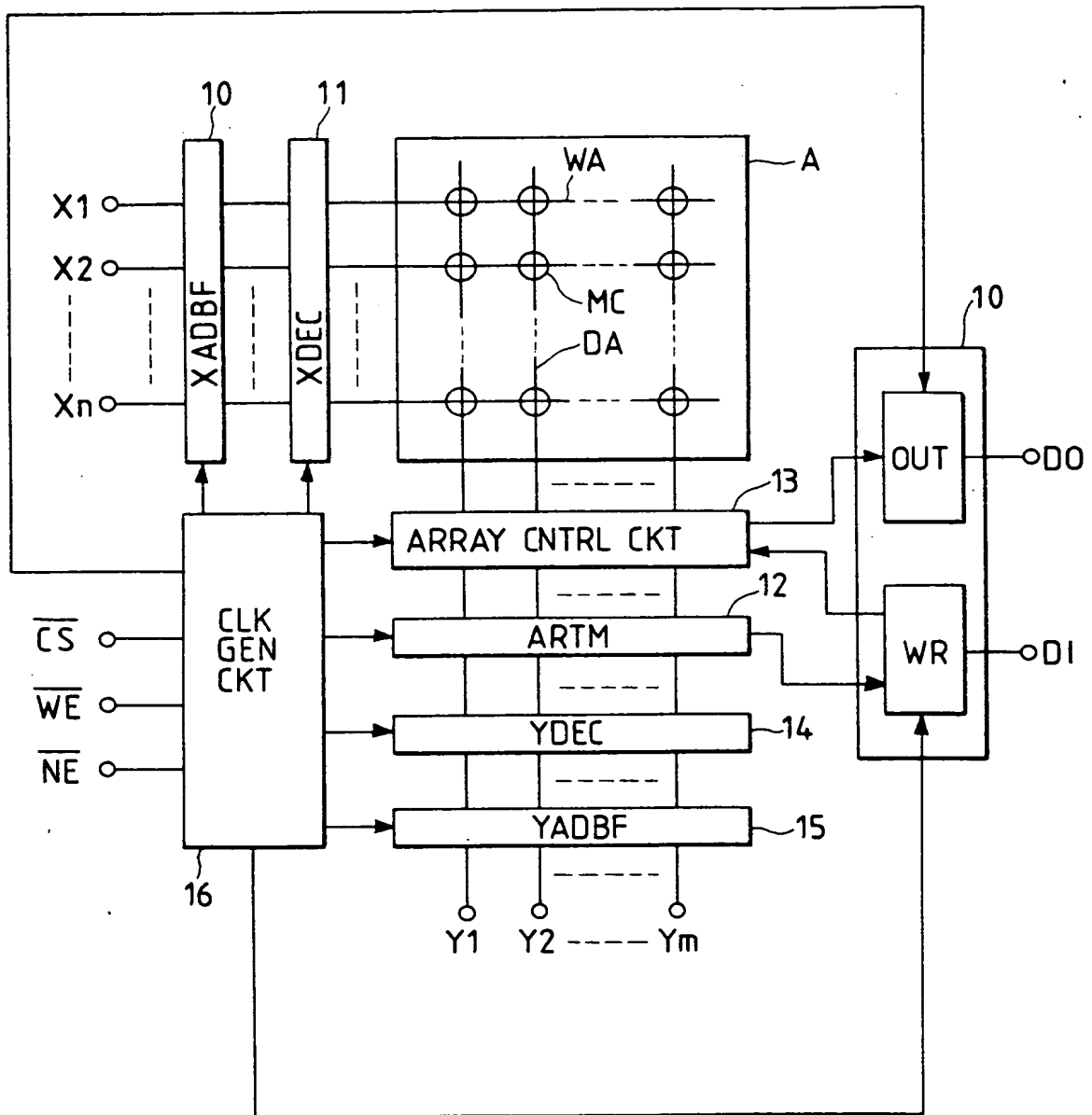


FIG. 7(a) 3912



FIG. 7(b)

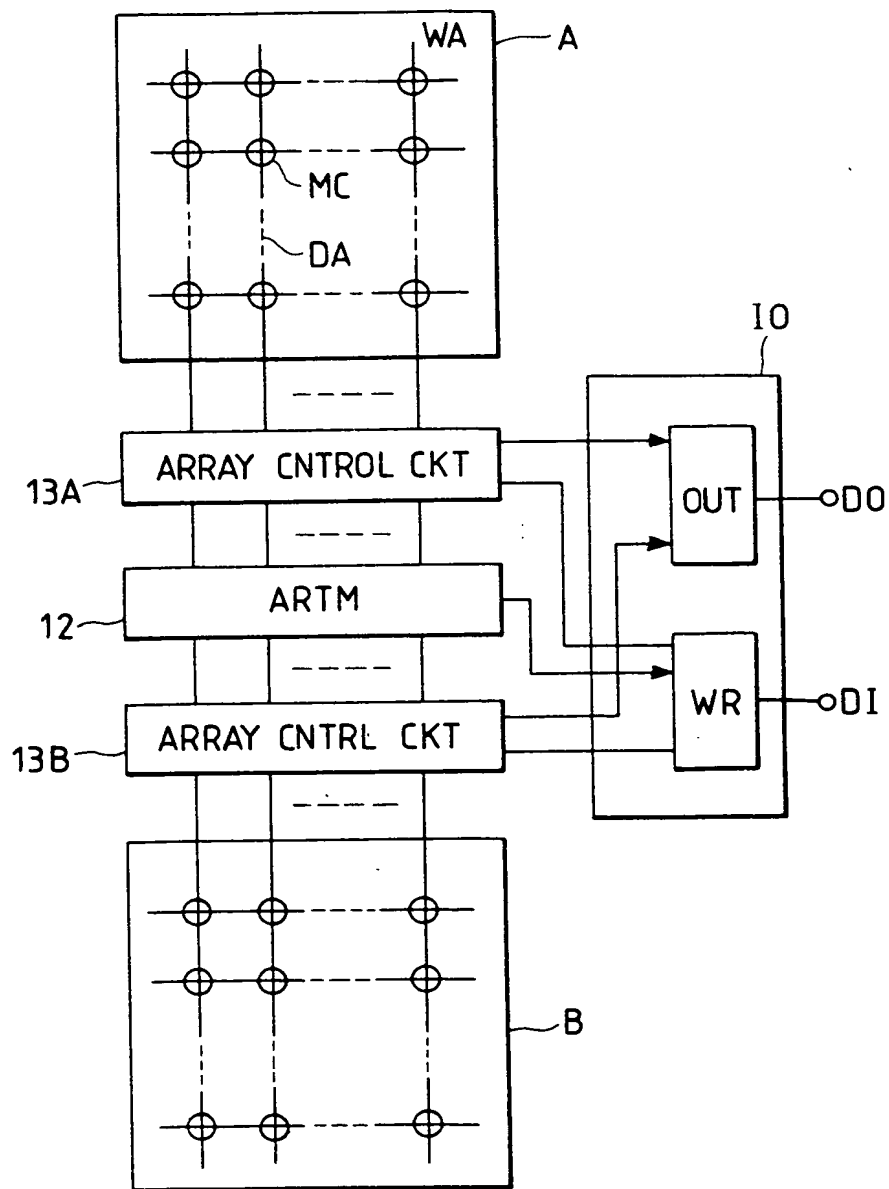
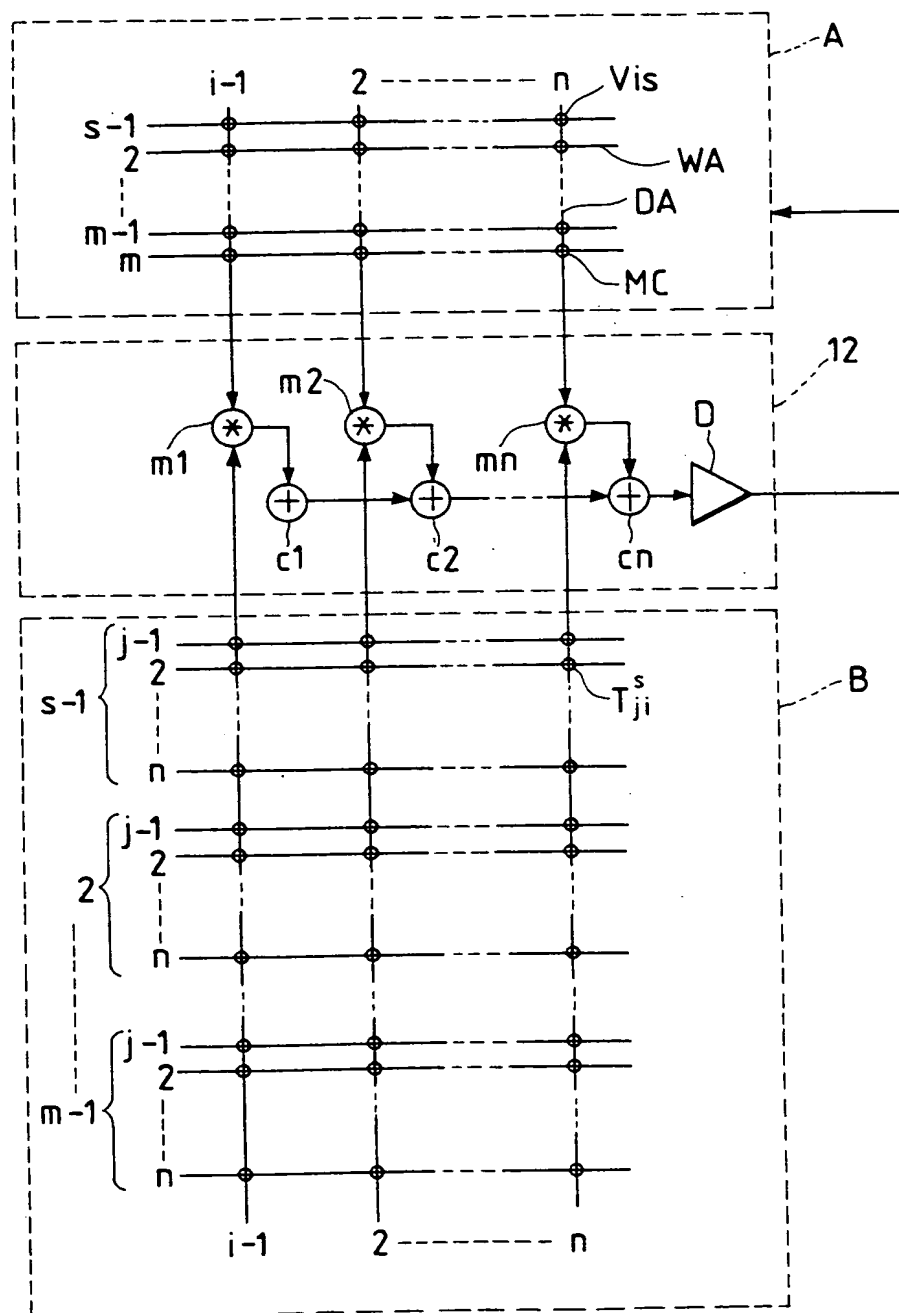


FIG. 8(a)



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FIG. 8(b)

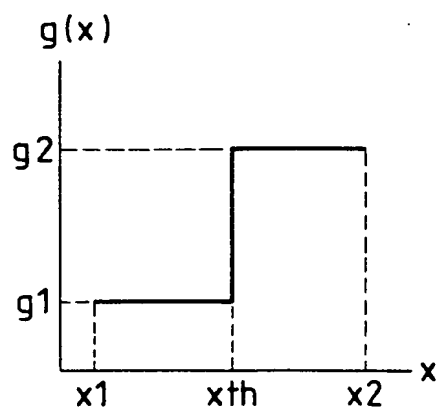


FIG. 8(c)

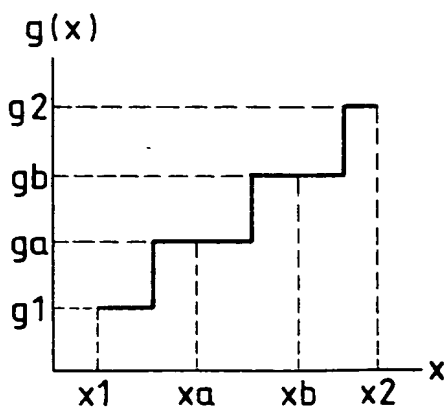


FIG. 8(d)

SELECTED WORD LINE		WRITE ADDRESS
ARRAY A s	ARRAY B (s, j)	ARRAY A (s, i)
1	(1, 1)	(2, 1)
1	(1, 2)	(2, 2)
⋮	⋮	⋮
1	(1, n)	(2, n)
2	(2, 1)	(3, 1)
2	(2, 2)	(3, 2)
⋮	⋮	⋮
2	(2, n)	(3, n)
m - 1	(m - 1, 1)	(m, 1)
m - 1	(m - 1, 2)	(m, 2)
⋮	⋮	⋮
m - 1	(m - 1, m)	(m, n)

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FIG. 9(a)

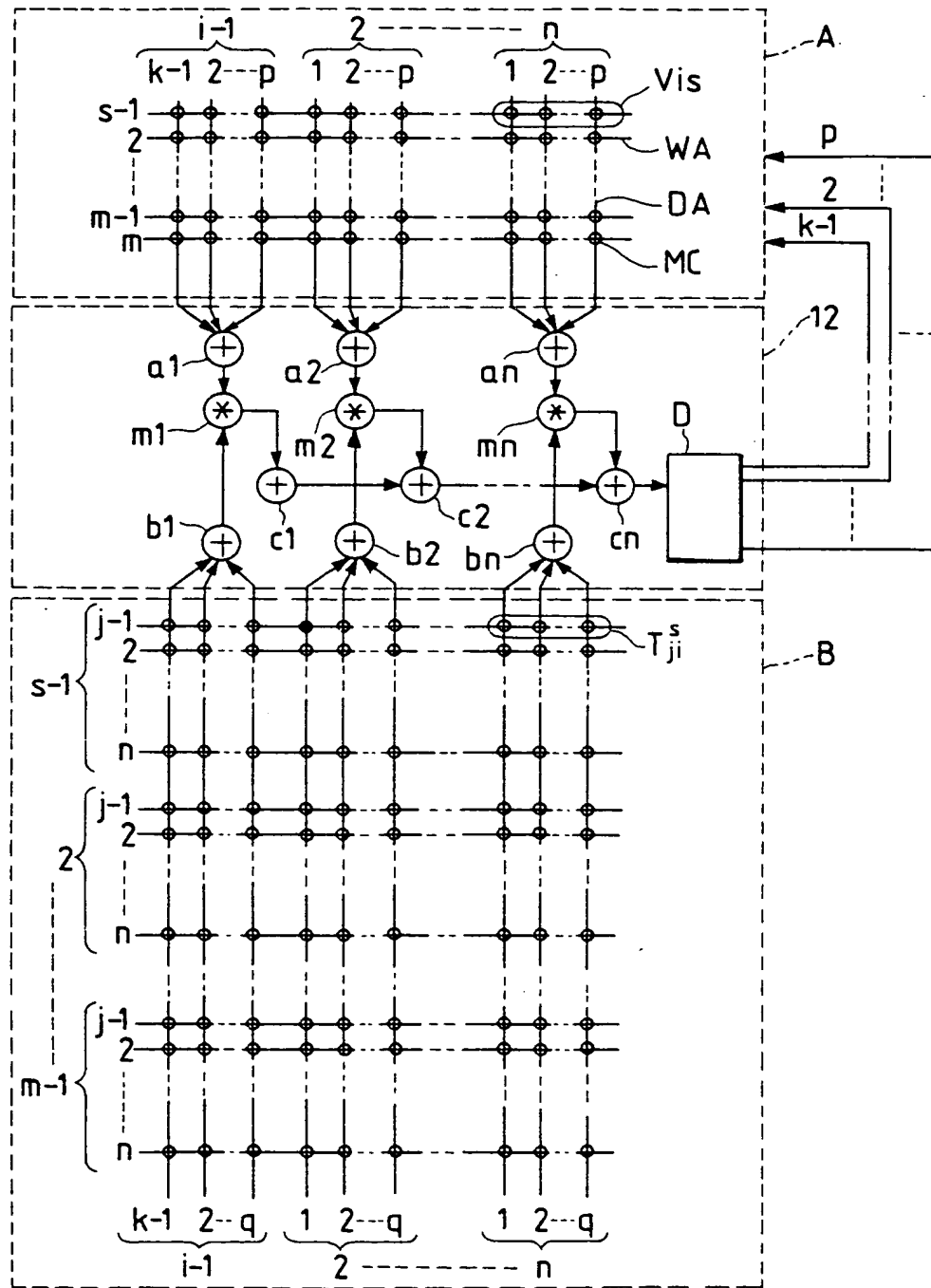


FIG. 9(b)

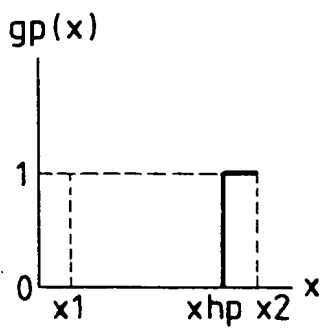
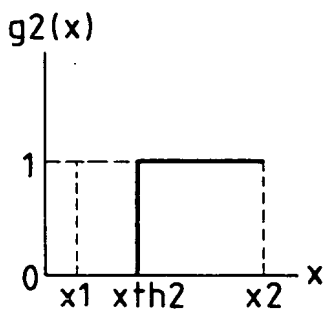
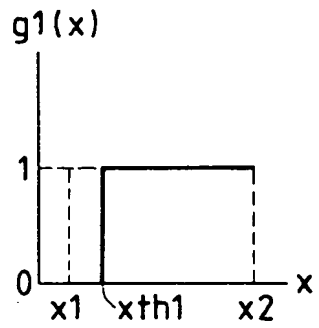


FIG. 9(c)

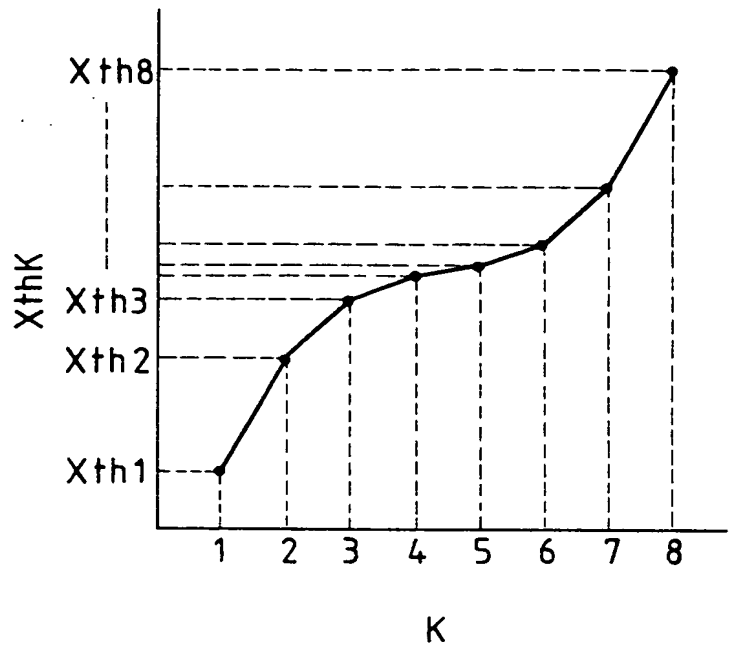
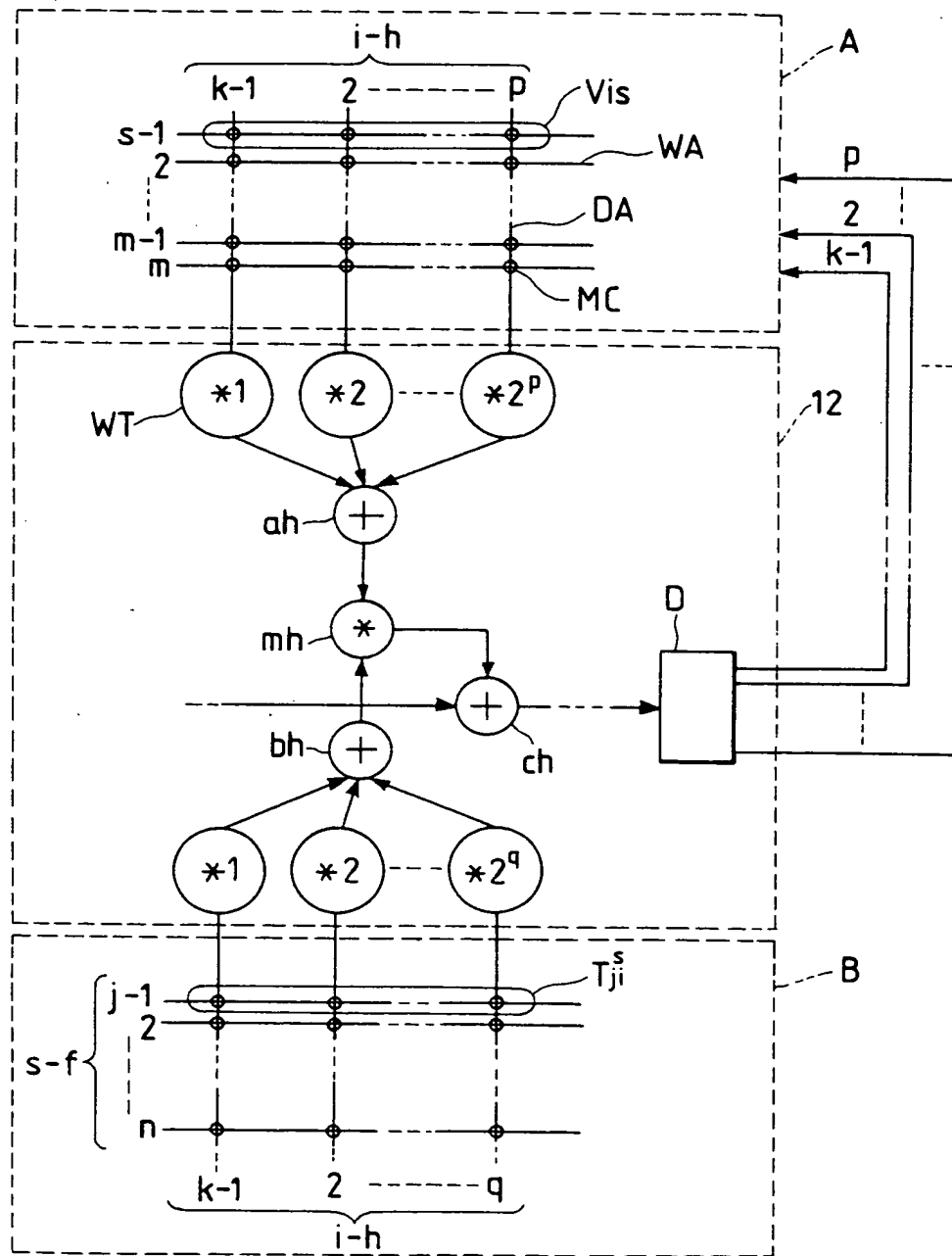


FIG. 10(a)



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FIG. 10(b)

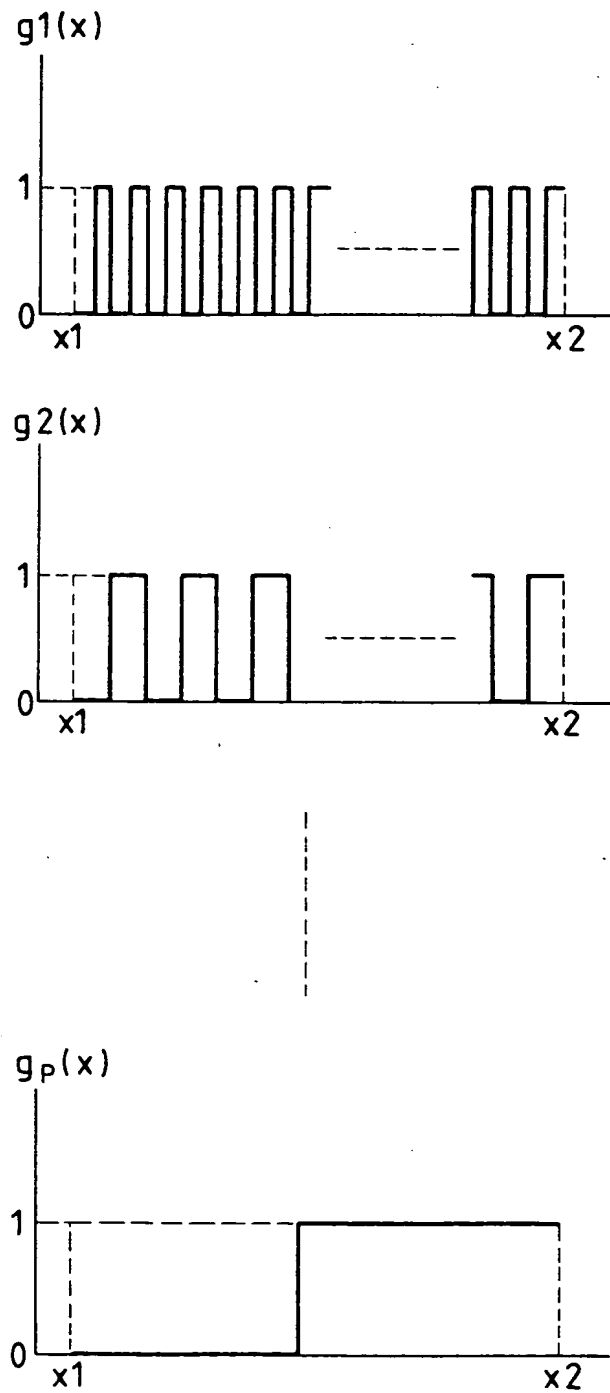
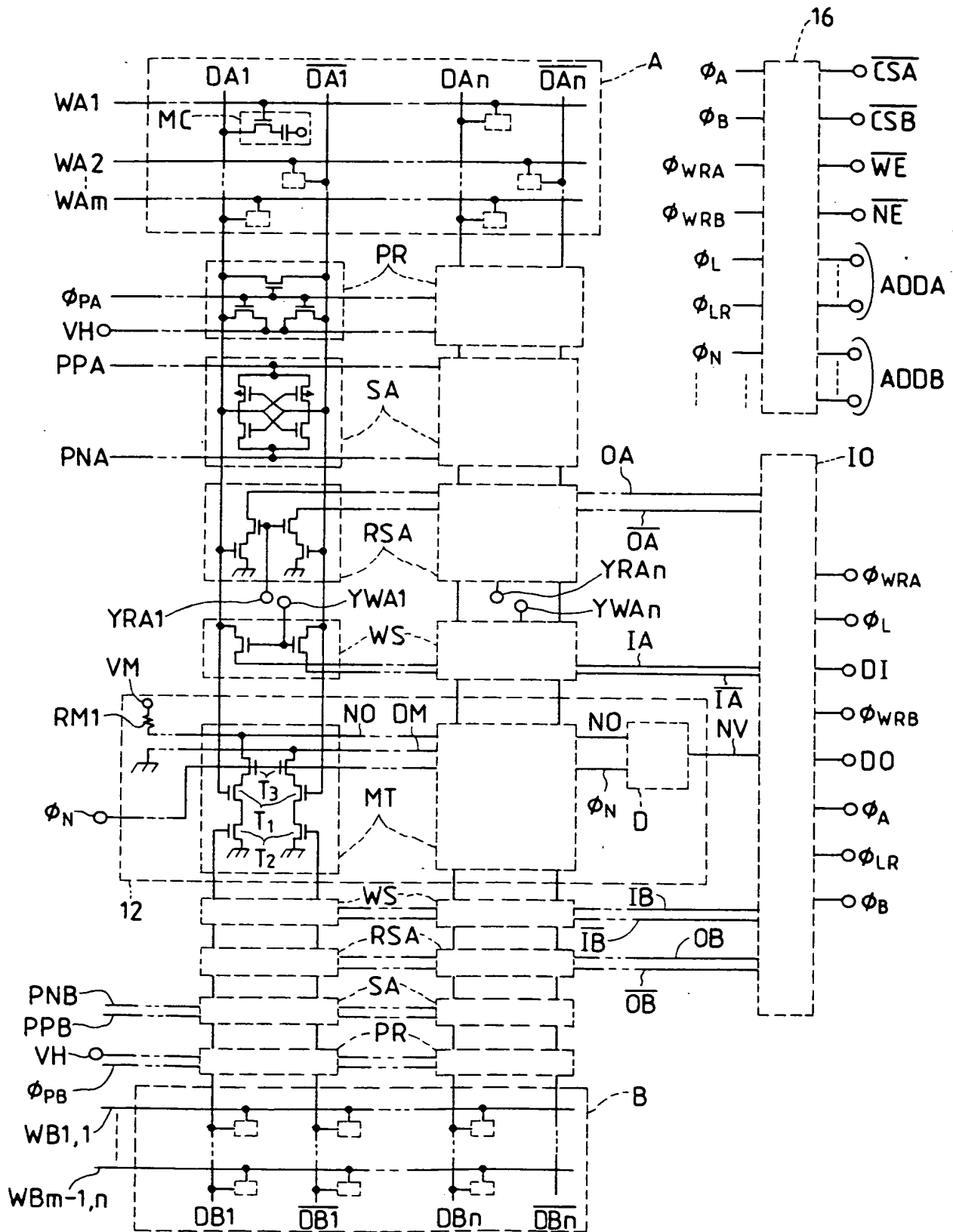




FIG. 11



TOP SECRET

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FIG. 12

MODE SIGNAL	MEMORY MODE				ARITHMETIC MODE	
	AR	AW	BR	BW	NR	NW
$\overline{\text{CSA}}$	L	L	H	H	L	L
$\overline{\text{CSB}}$	H	H	L	L	L	H
$\overline{\text{WE}}$	H	L	H	L	H	L
$\overline{\text{NE}}$	H	H	H	H	L	L
ADDRESS	ADDA	ADDA	ADDB	ADDB	ADDA ADDB	ADDA

FIG. 13(a)

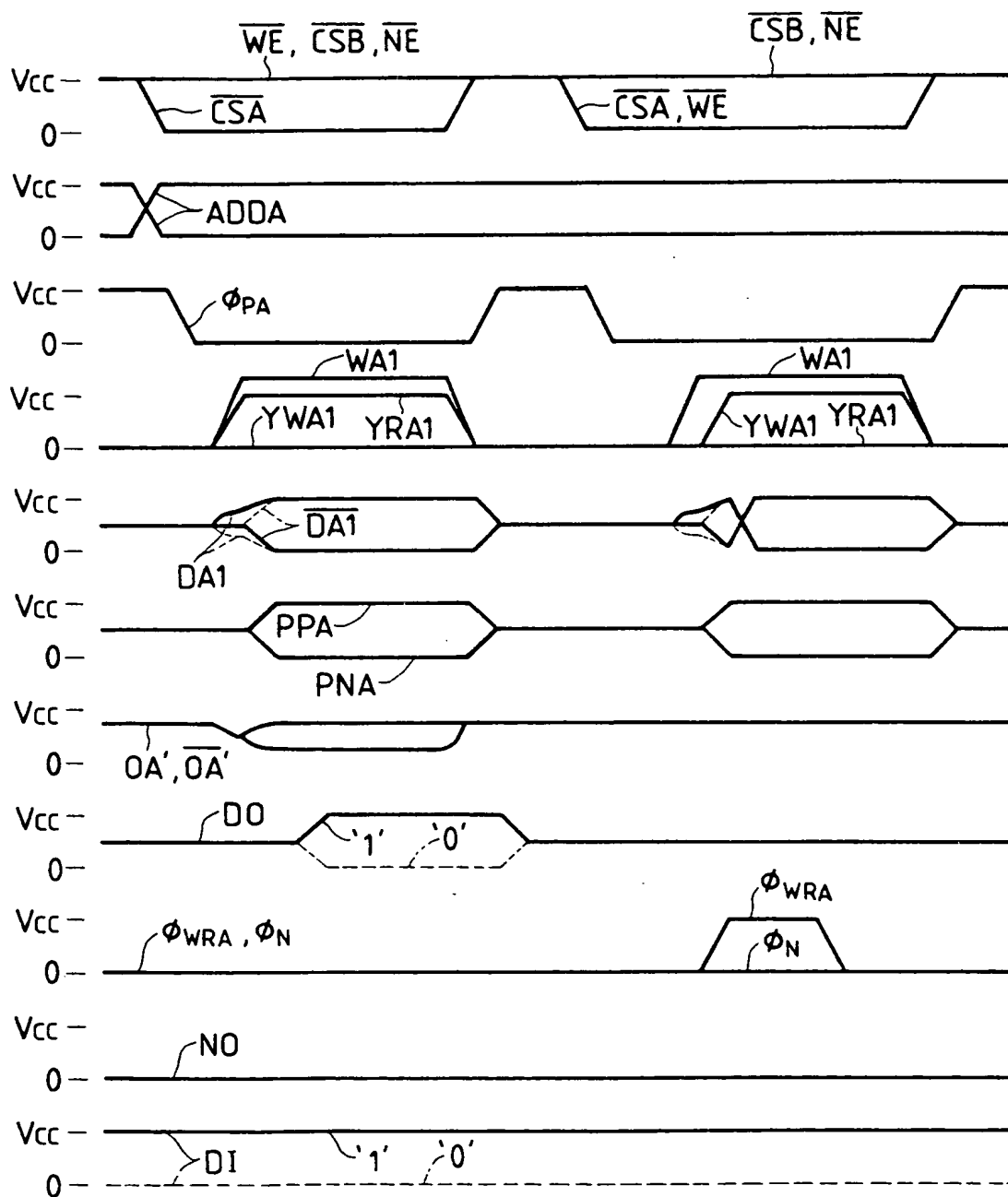
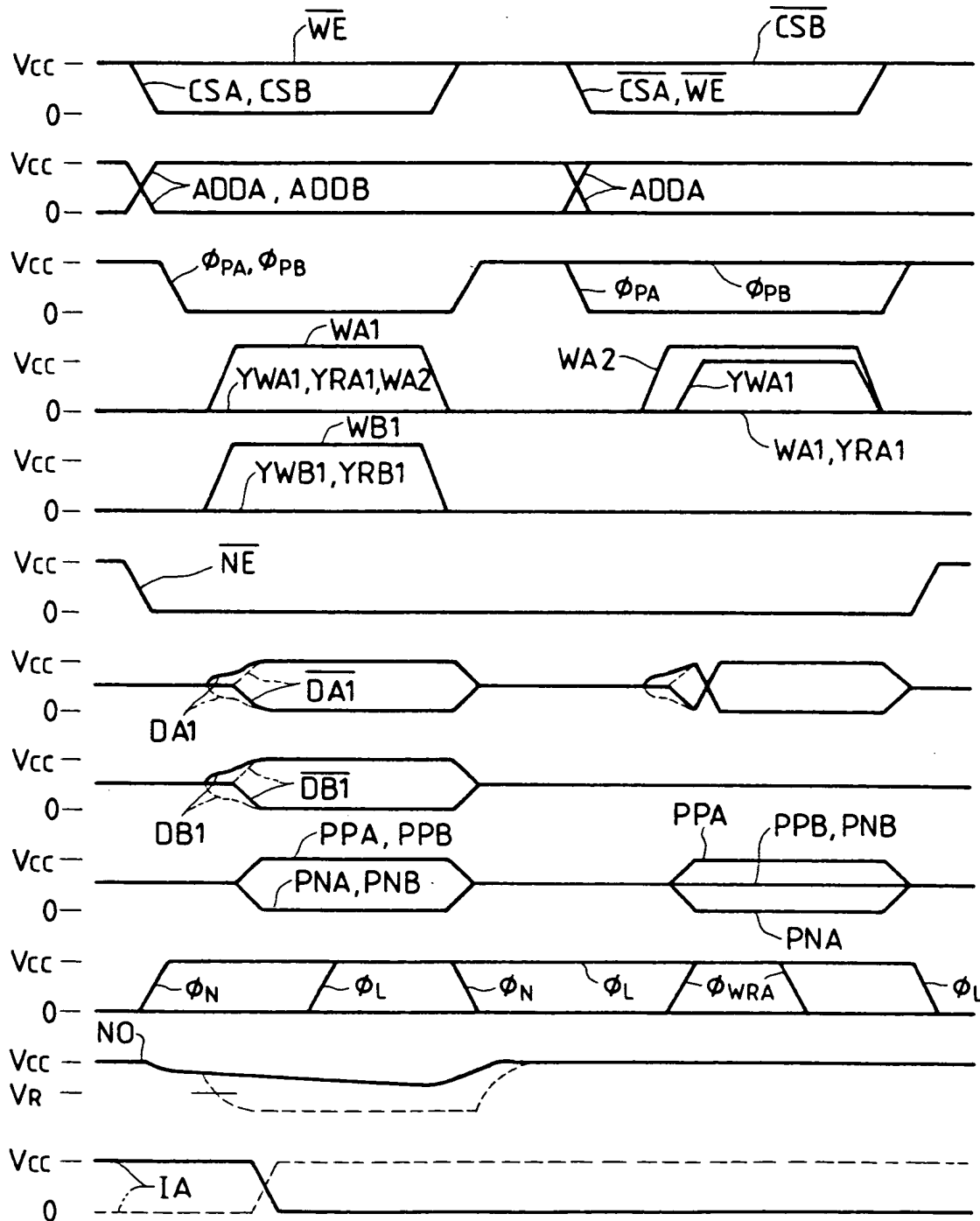


FIG. 13(b)



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FIG. 14(a)

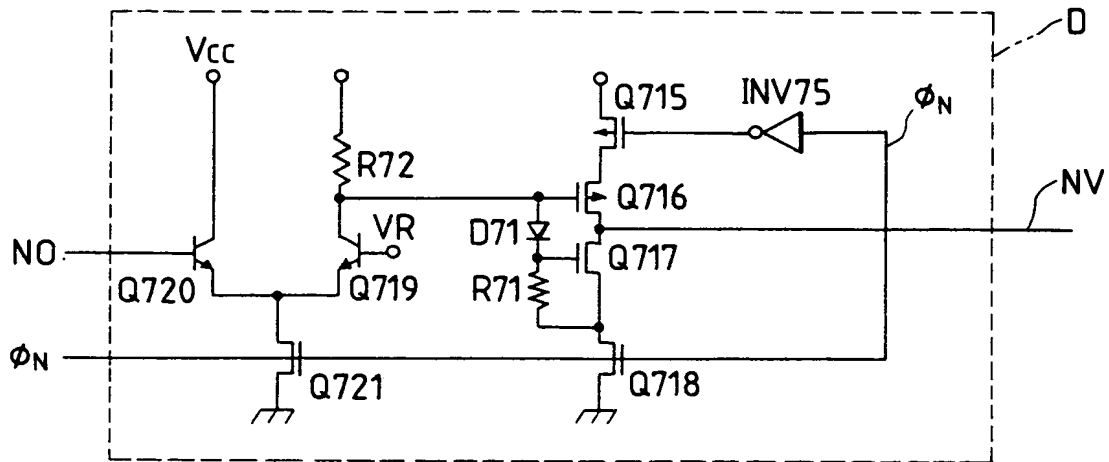


FIG. 14(b)

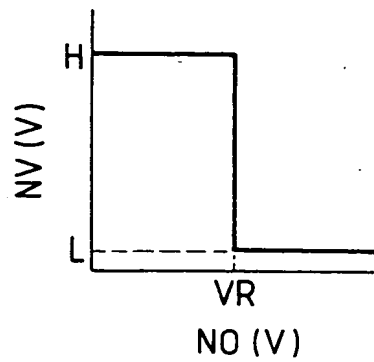


FIG. 14(c)

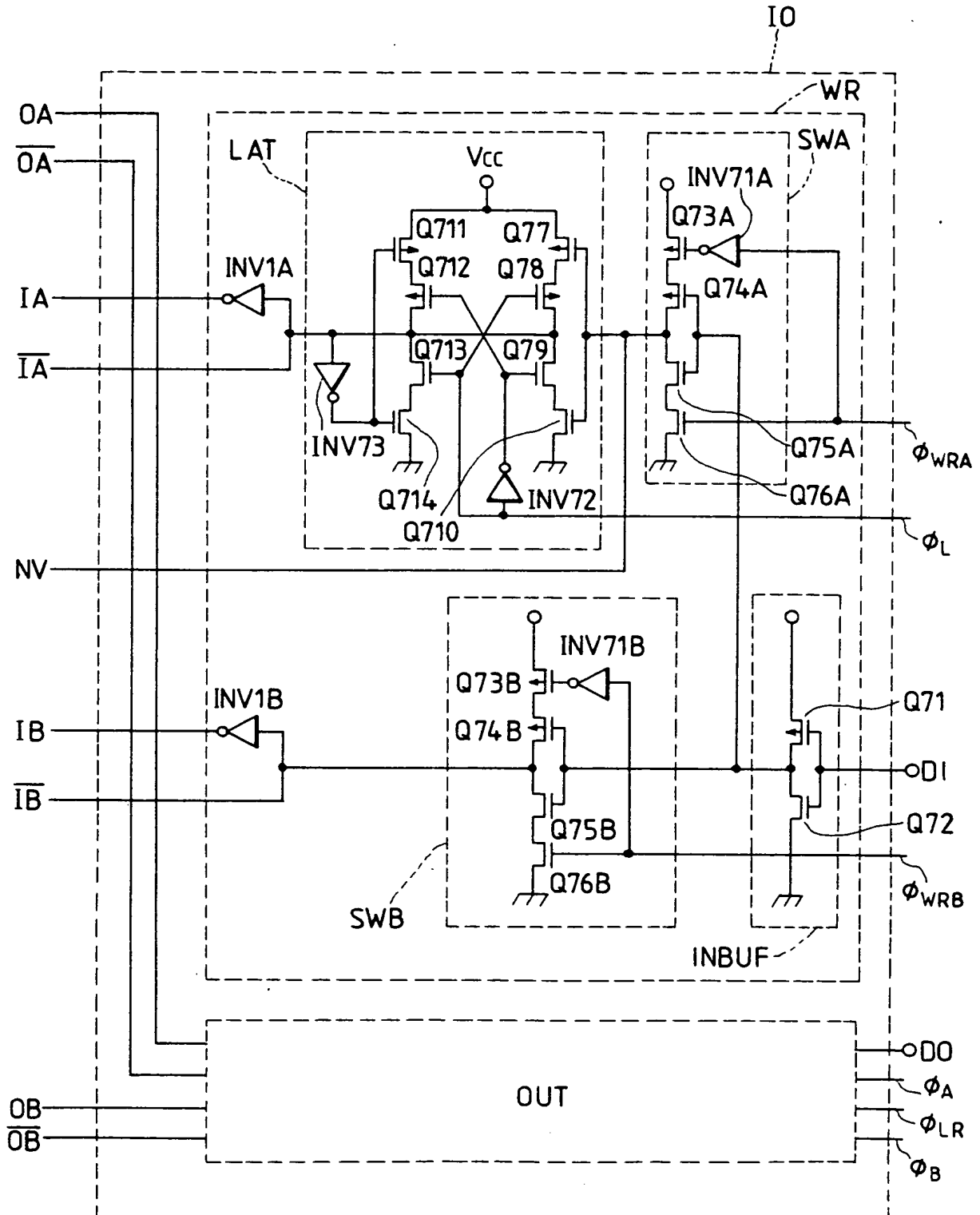


FIG. 14(d)

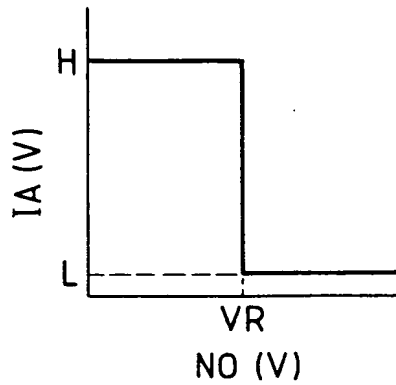


FIG. 14(e)

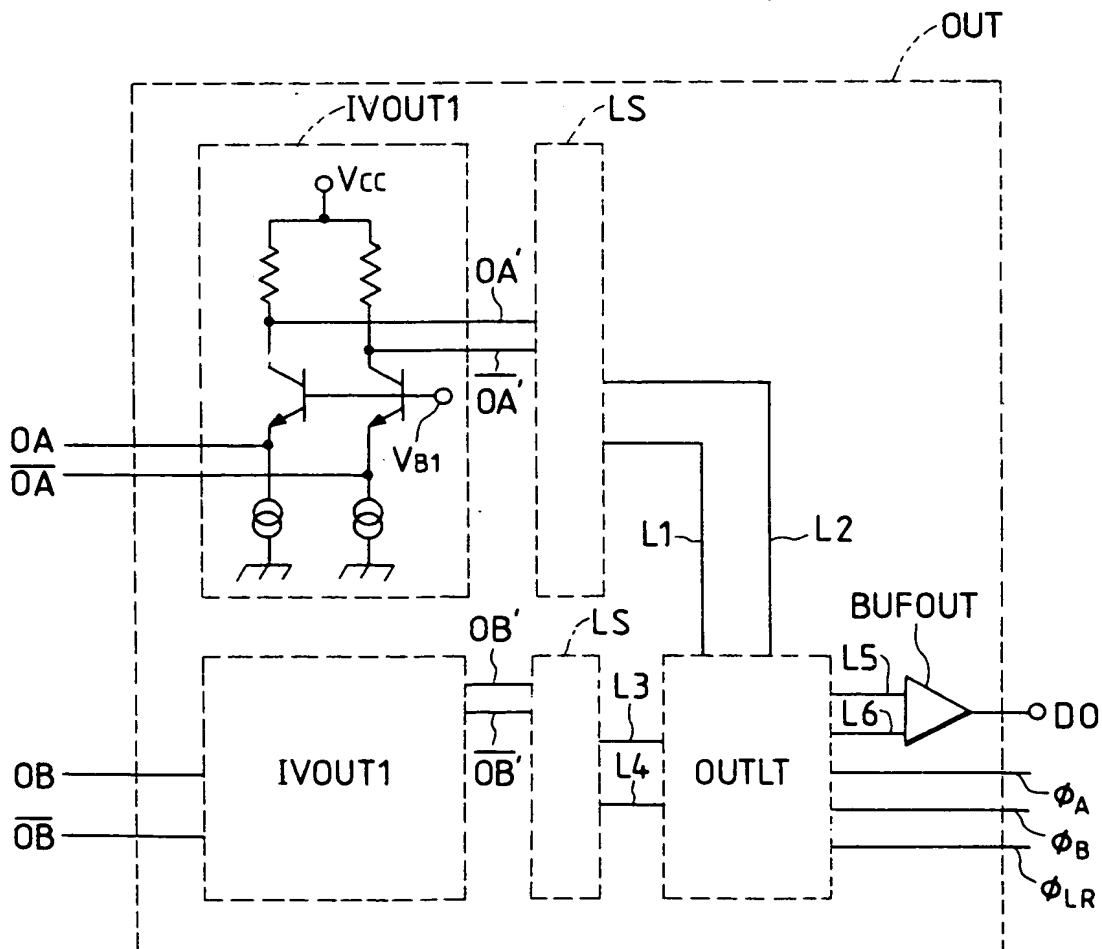


FIG. 14(f)

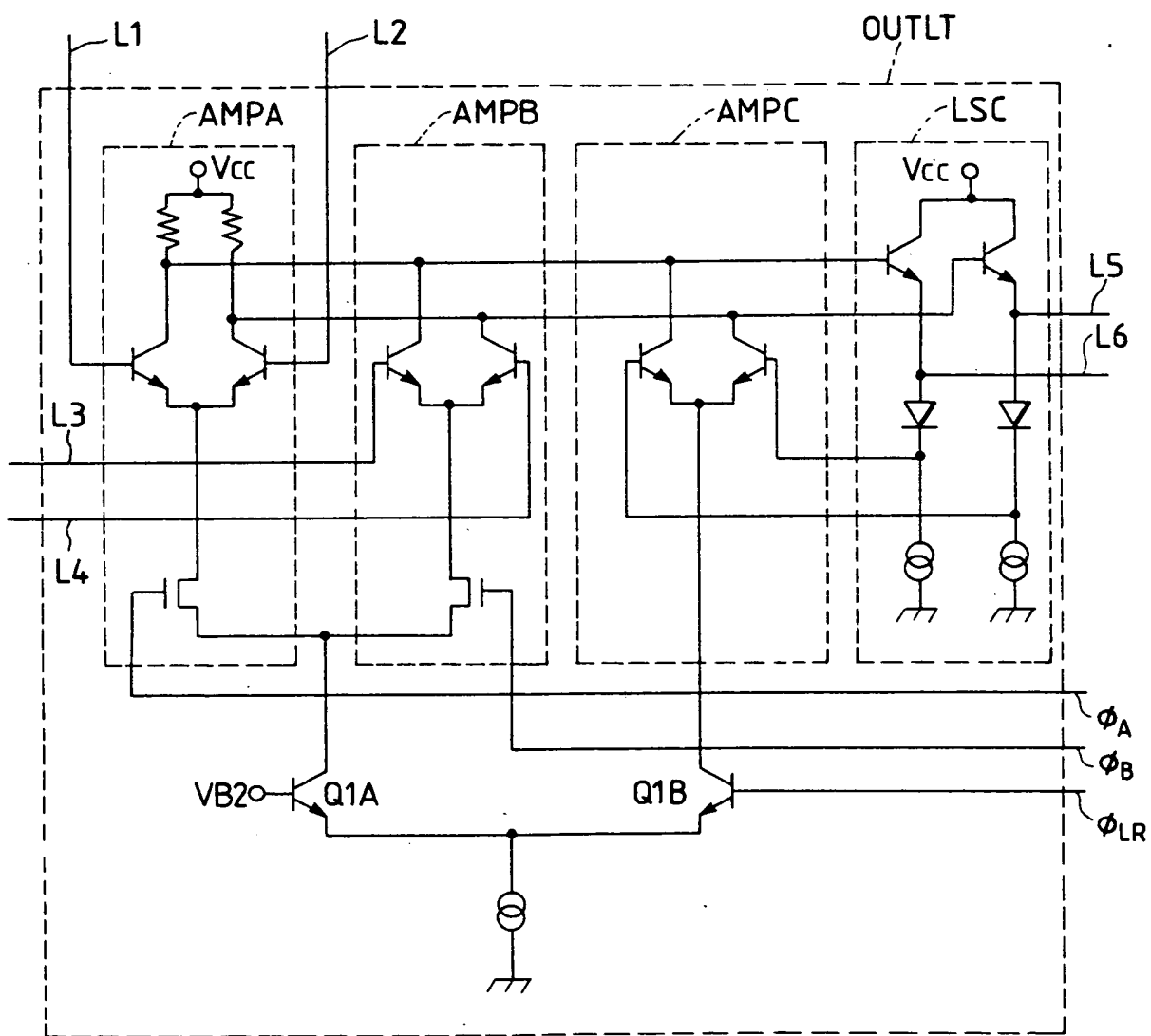




FIG. 15

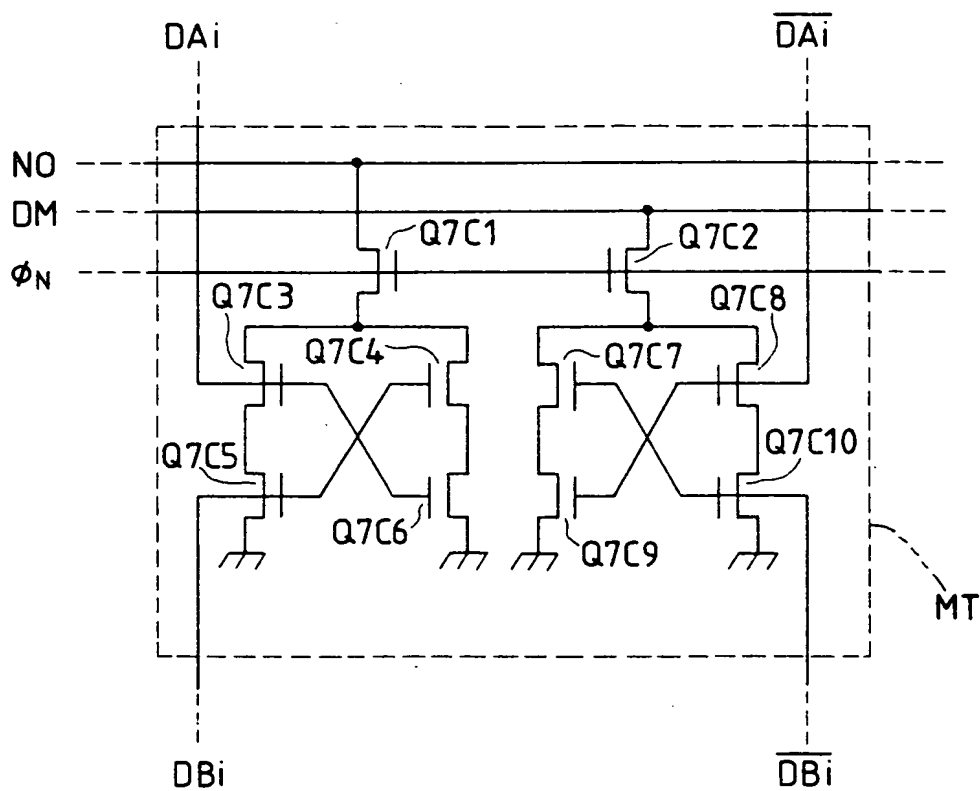


FIG. 16(a)

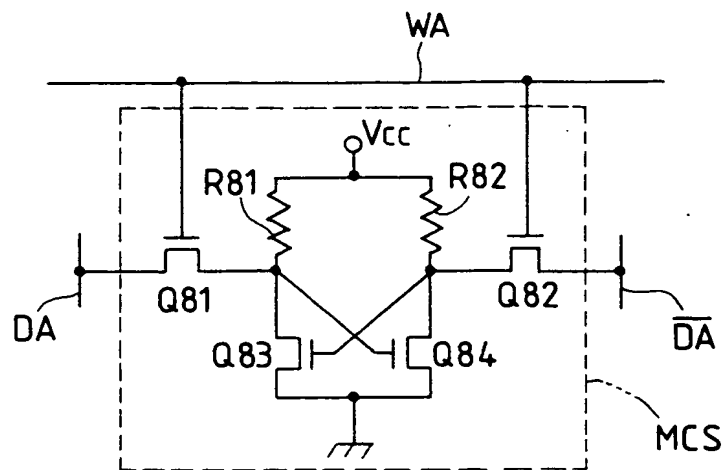


FIG. 16(b)

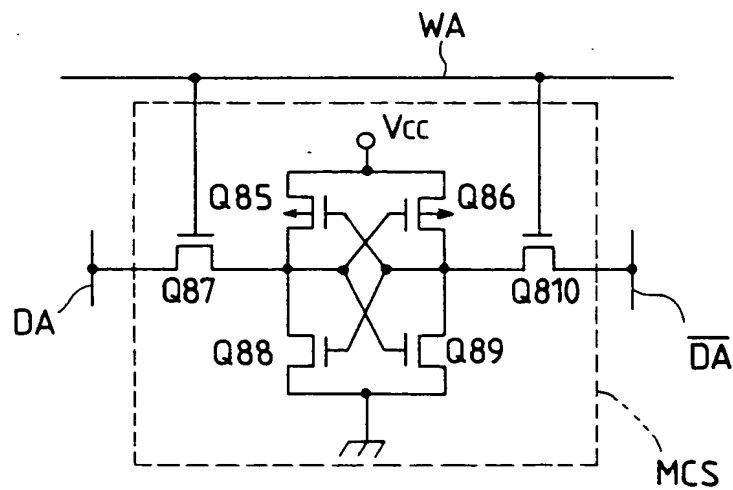
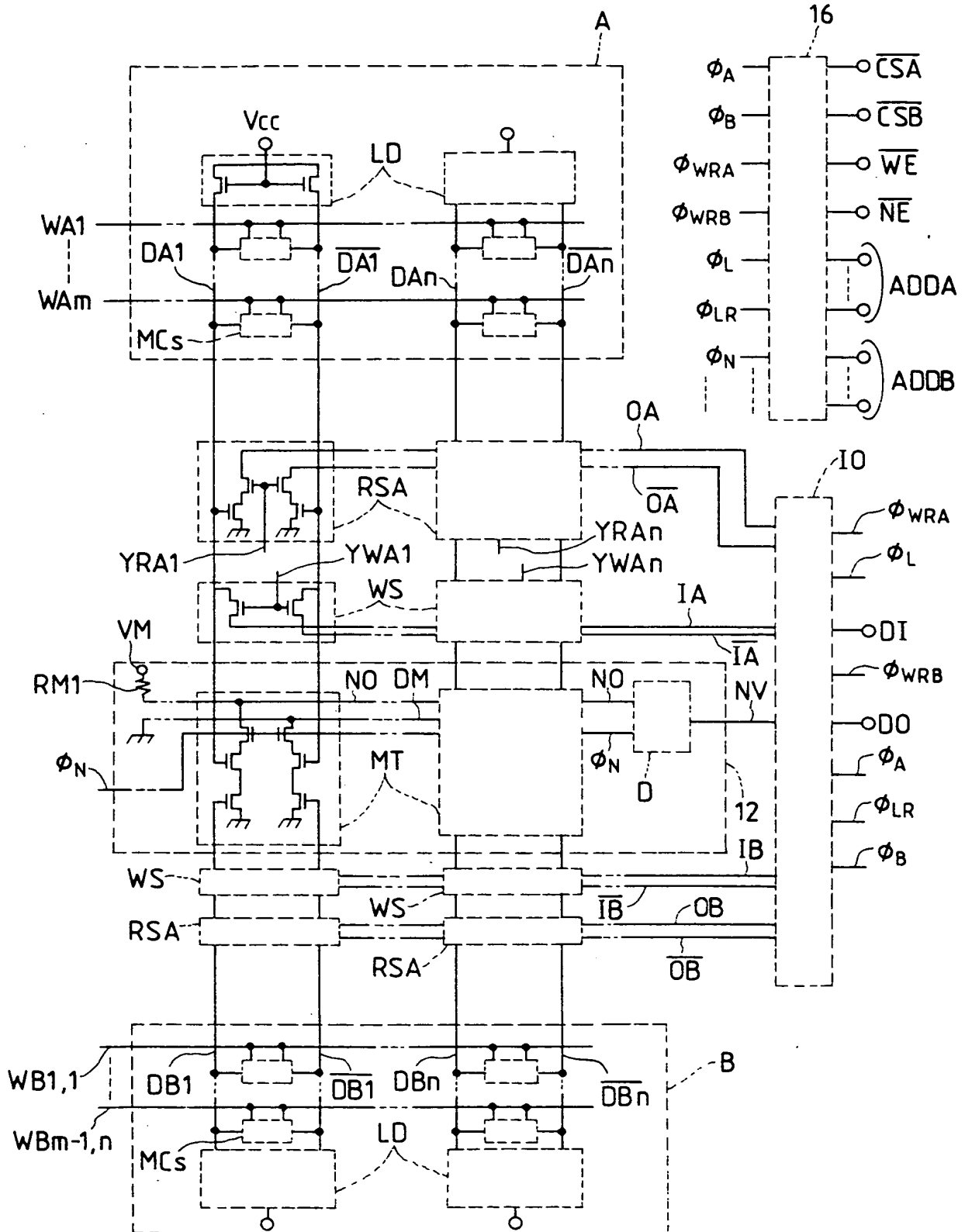
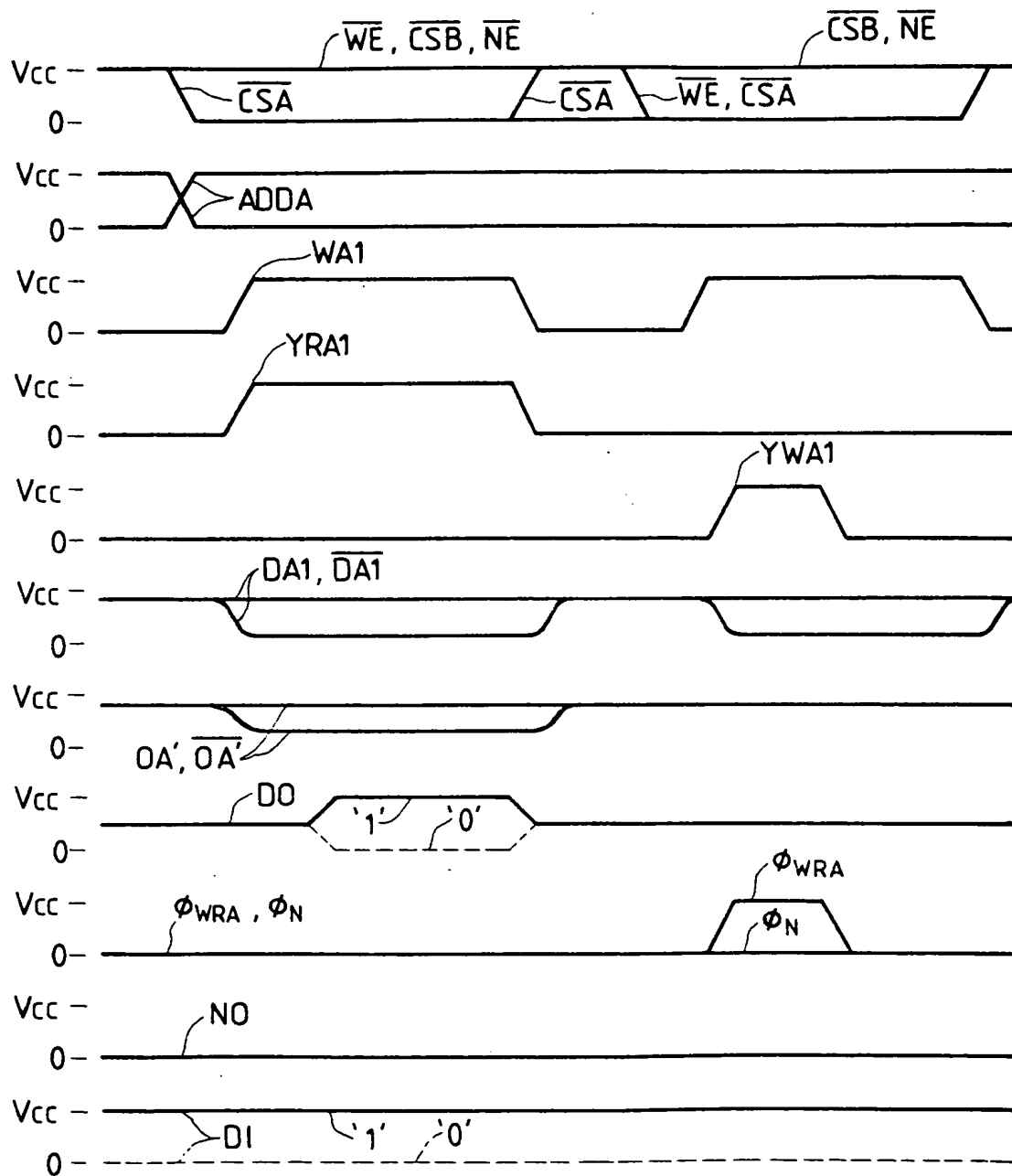


FIG. 16(c)



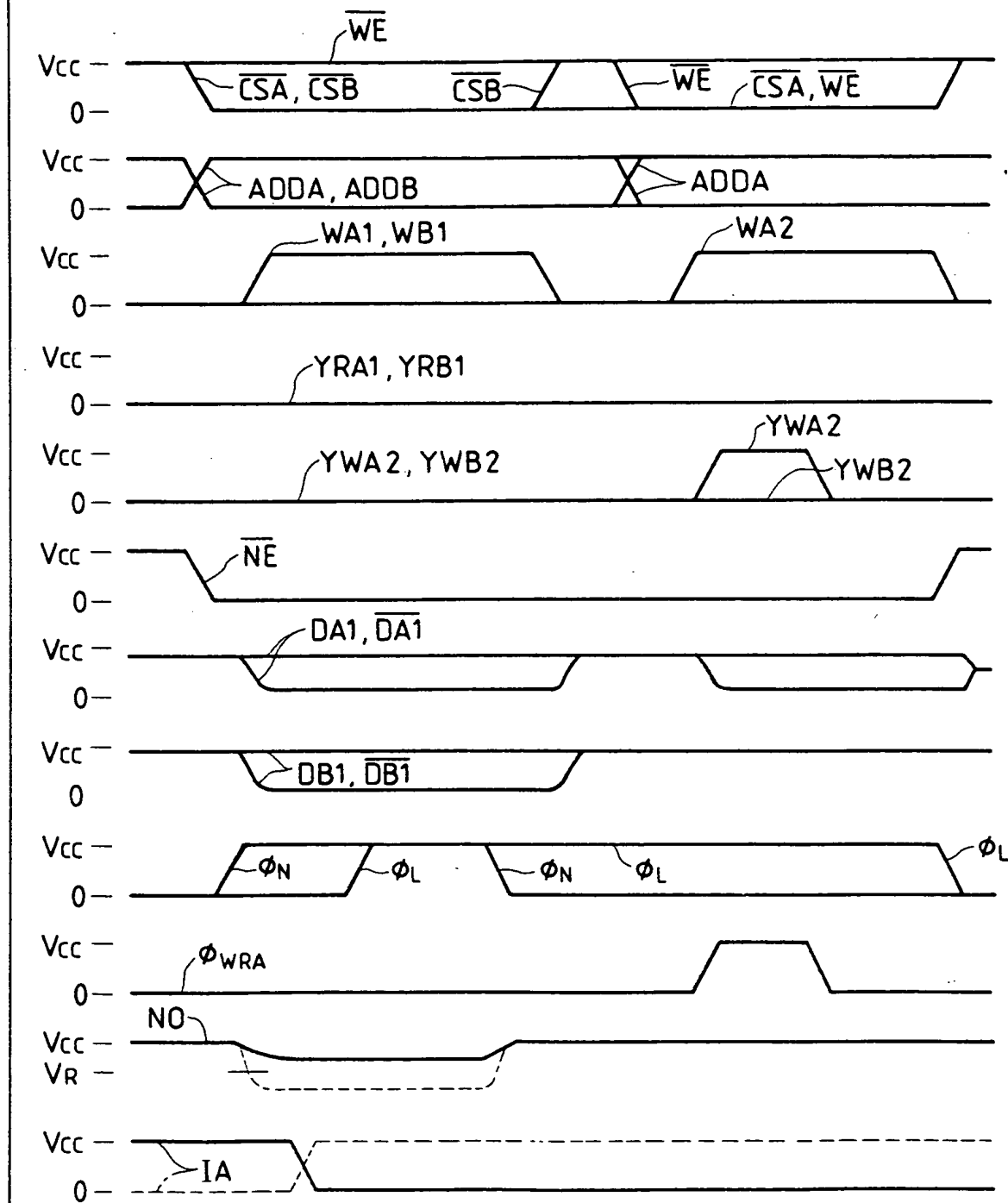
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FIG. 17(a)



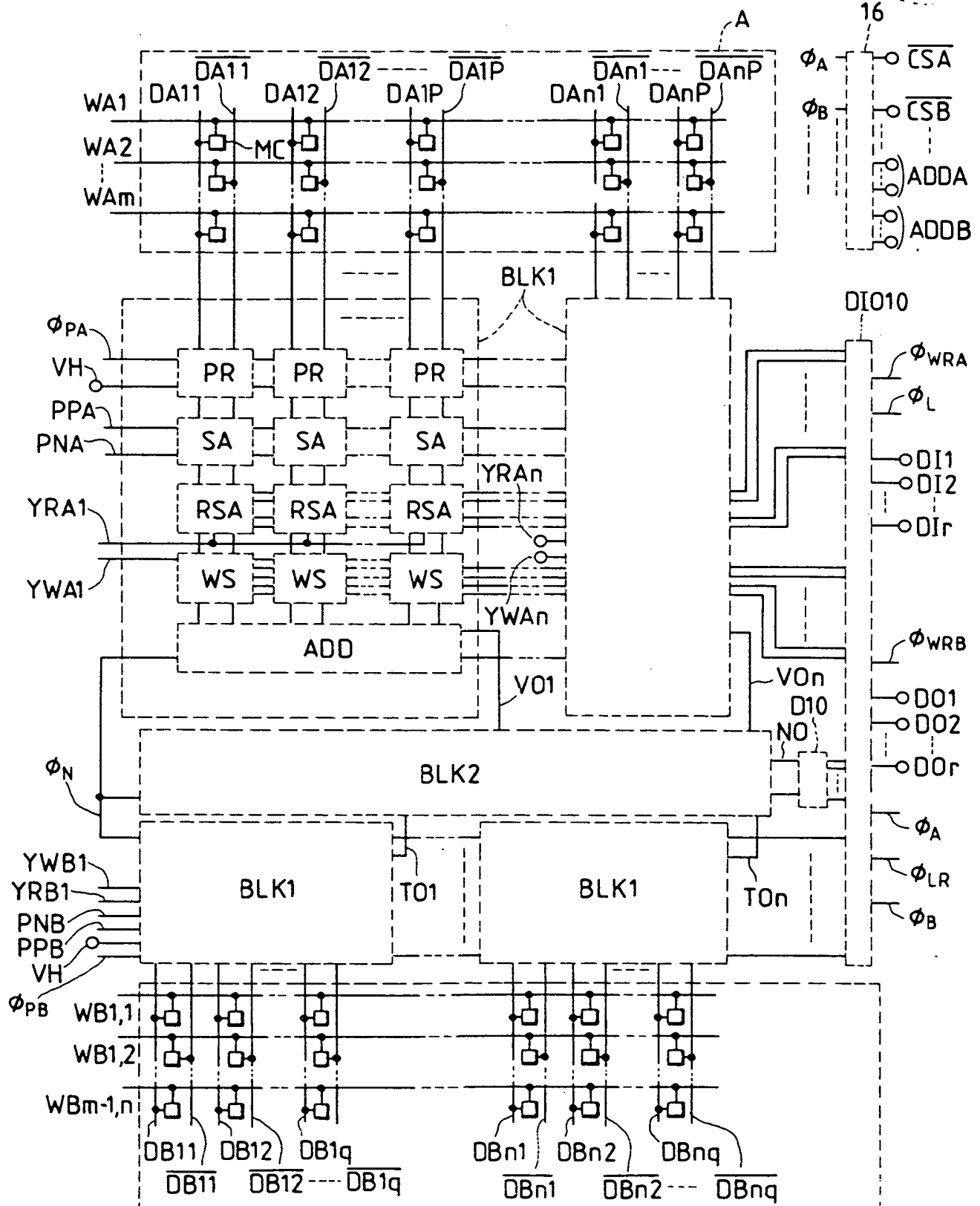
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FIG. 17(b)



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FIG. 18(a)



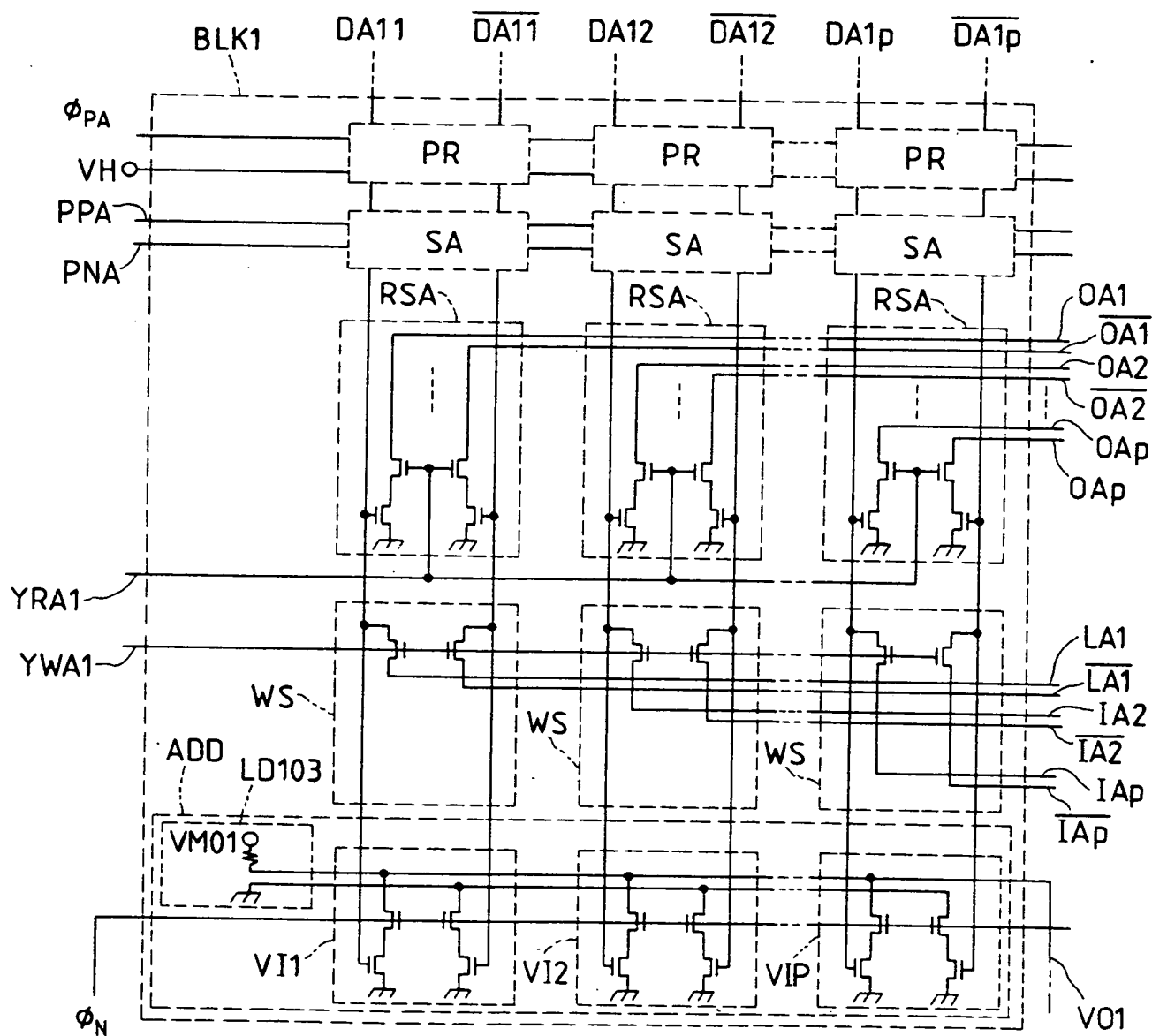


FIG. 18(c)

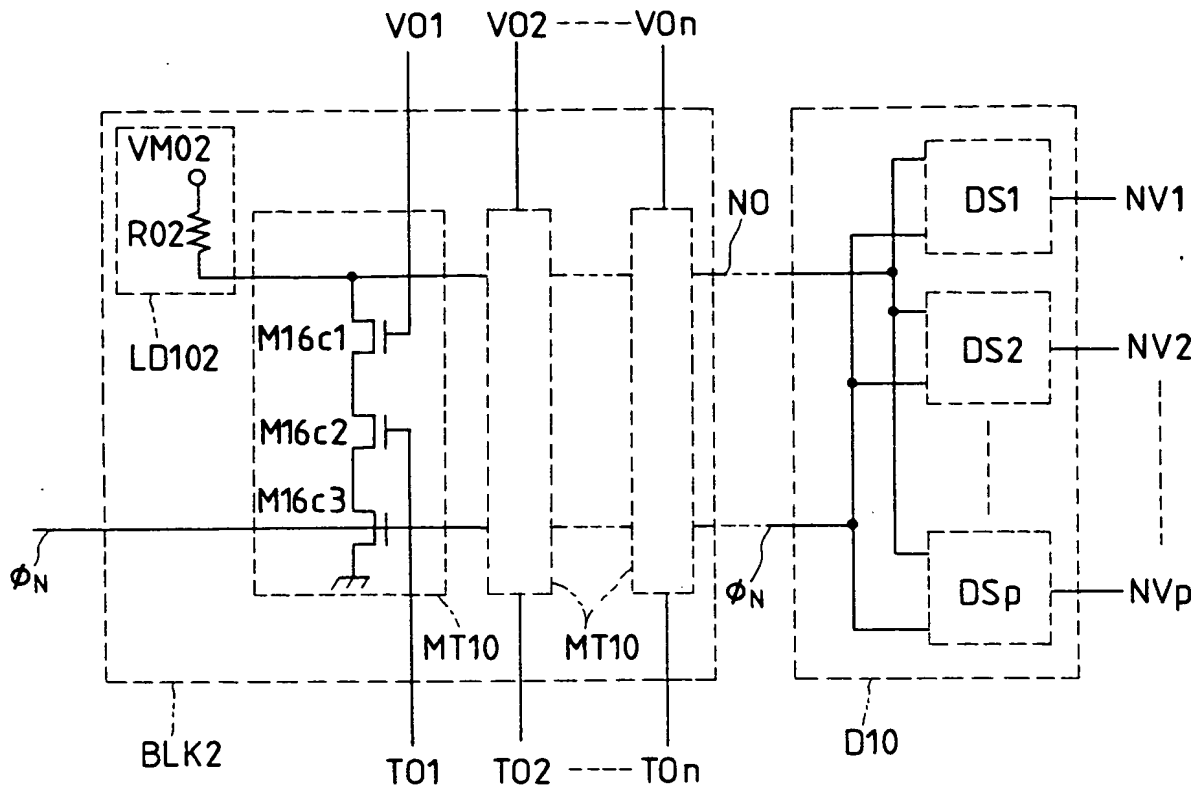


FIG. 18(d)

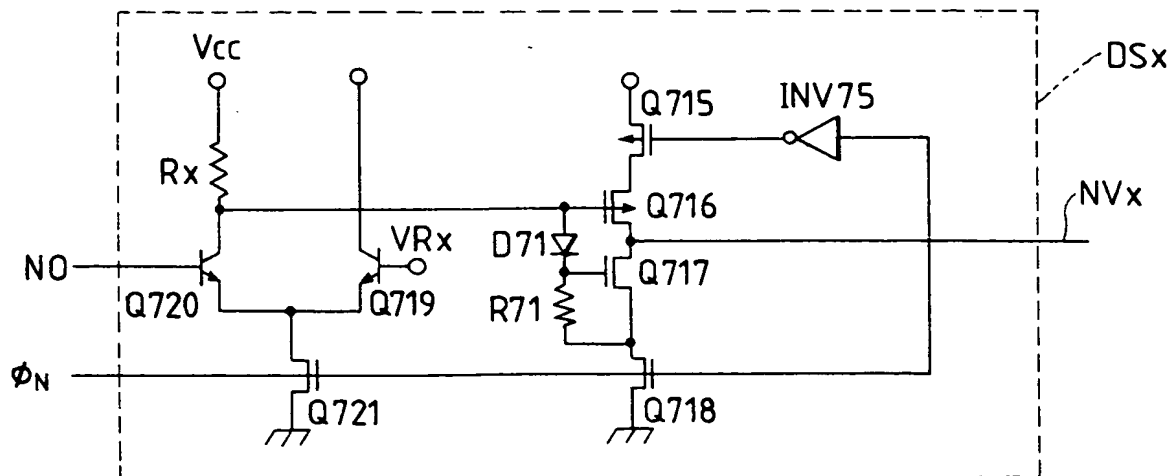




FIG. 18(e)

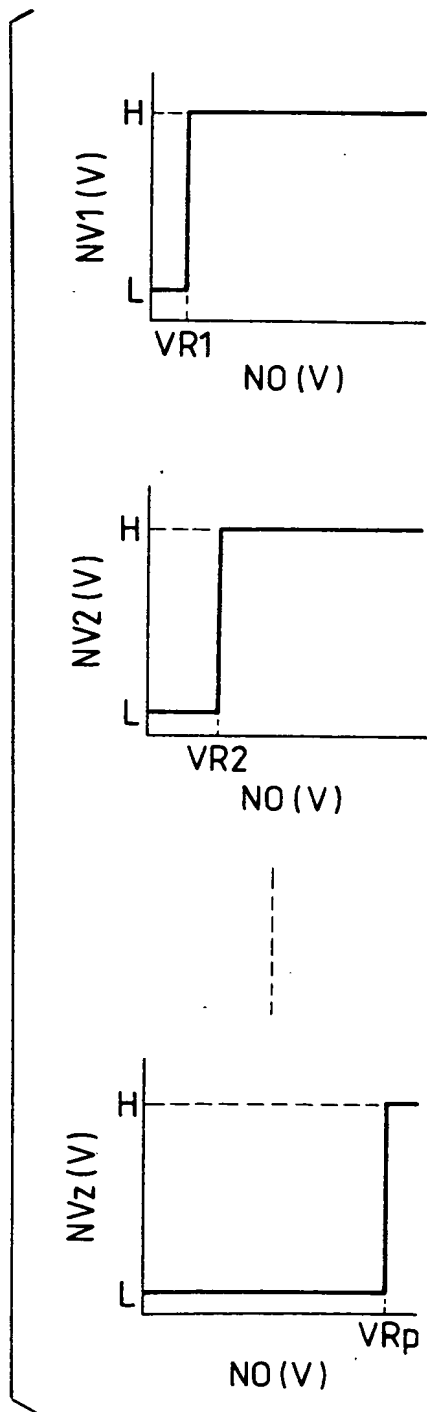


FIG. 19(a)

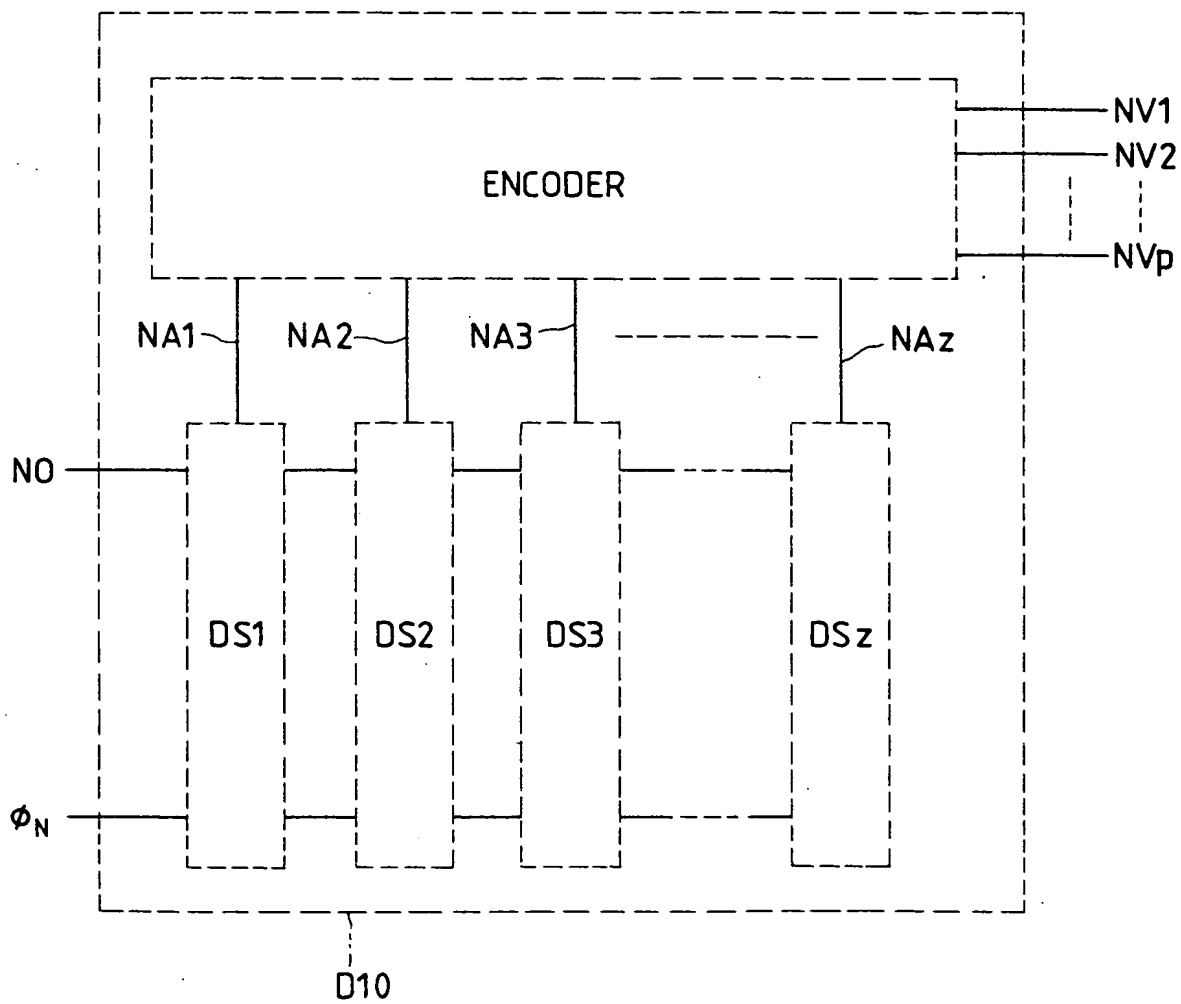


FIG. 19(a)

FIG. 19(b)

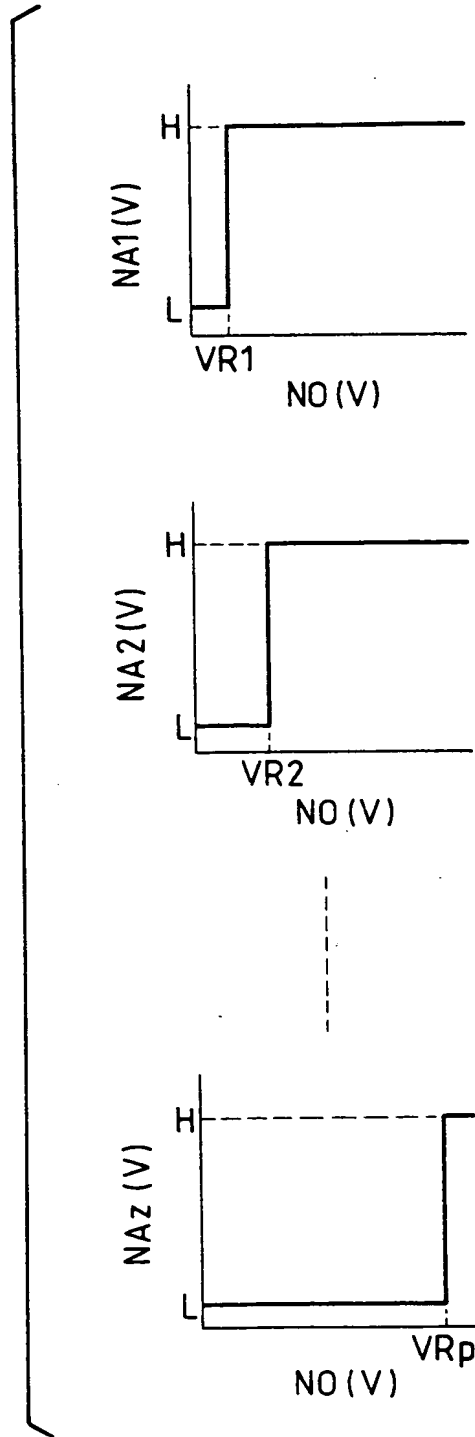


FIG. 19(c)

ENCODER INPUT						ENCODER OUTPUT					
NA1	NA2	NA3	NA4	---	NAz	NV1	NV2	NV3	NV4	---	NVp
L	L	L	L	---	L	L	L	L	L	---	L
H	L	L	L	---	L	H	L	L	L	---	L
H	H	L	L	---	L	L	H	L	L	---	L
H	H	H	L	---	L	H	H	L	L	---	L
H	H	H	H	---	L	L	L	H	L	---	L
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
H	H	H	H	---	H	H	H	H	H	---	H

FIG. 19(d)

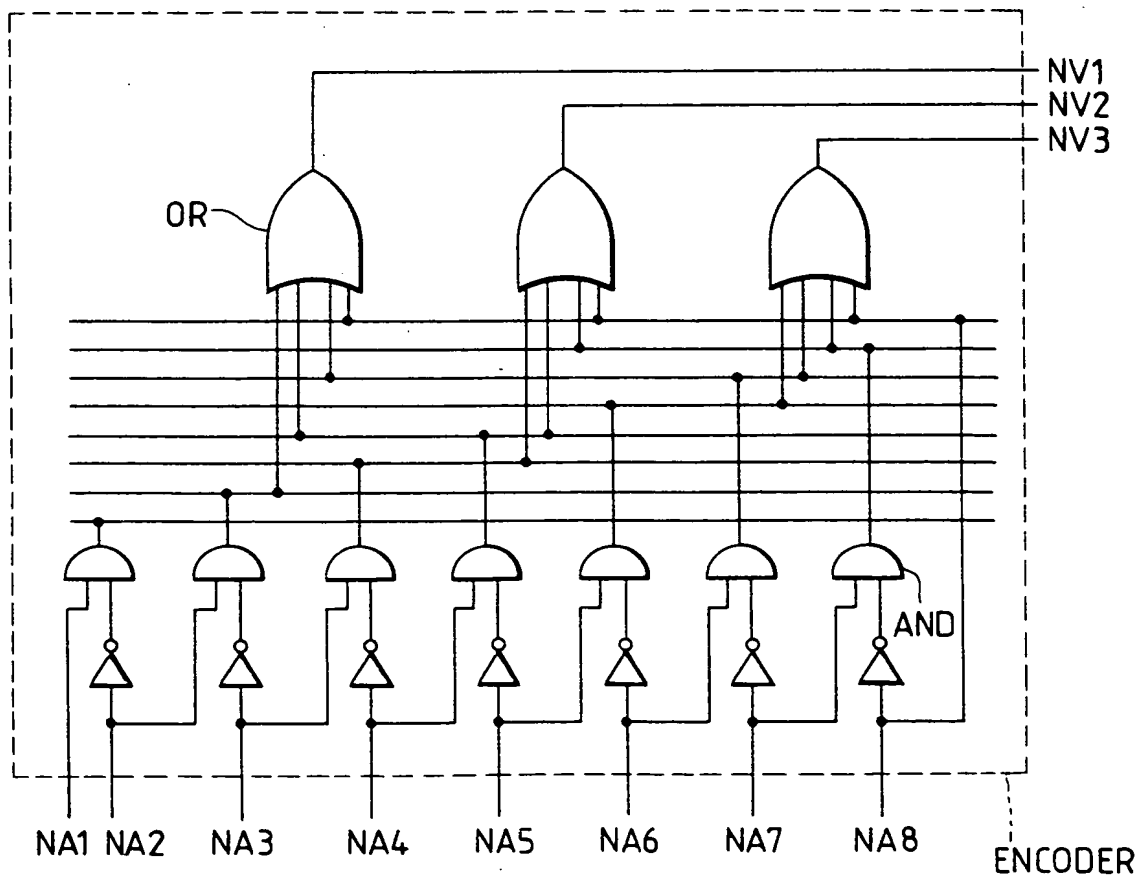


FIG. 20(a)

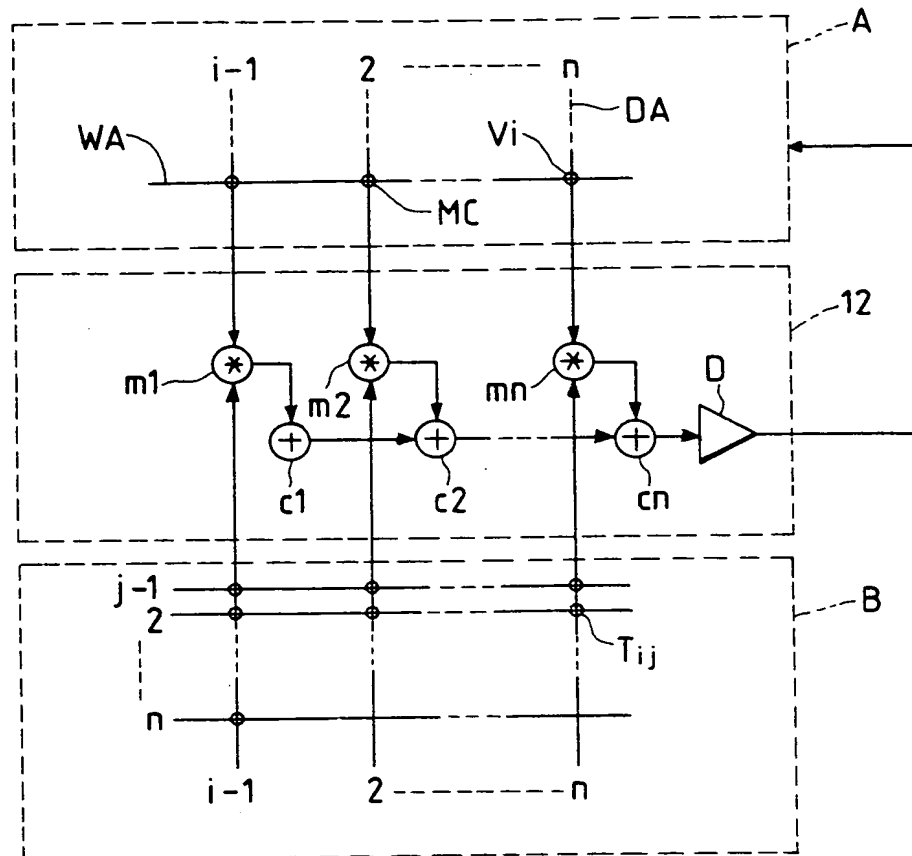


FIG. 20(b)

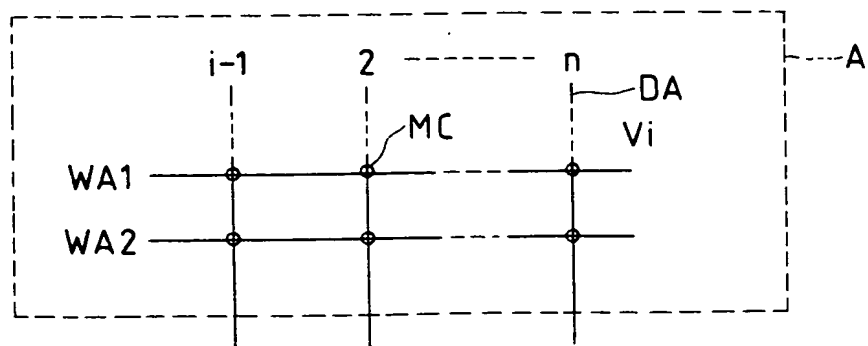


FIG. 21(a)

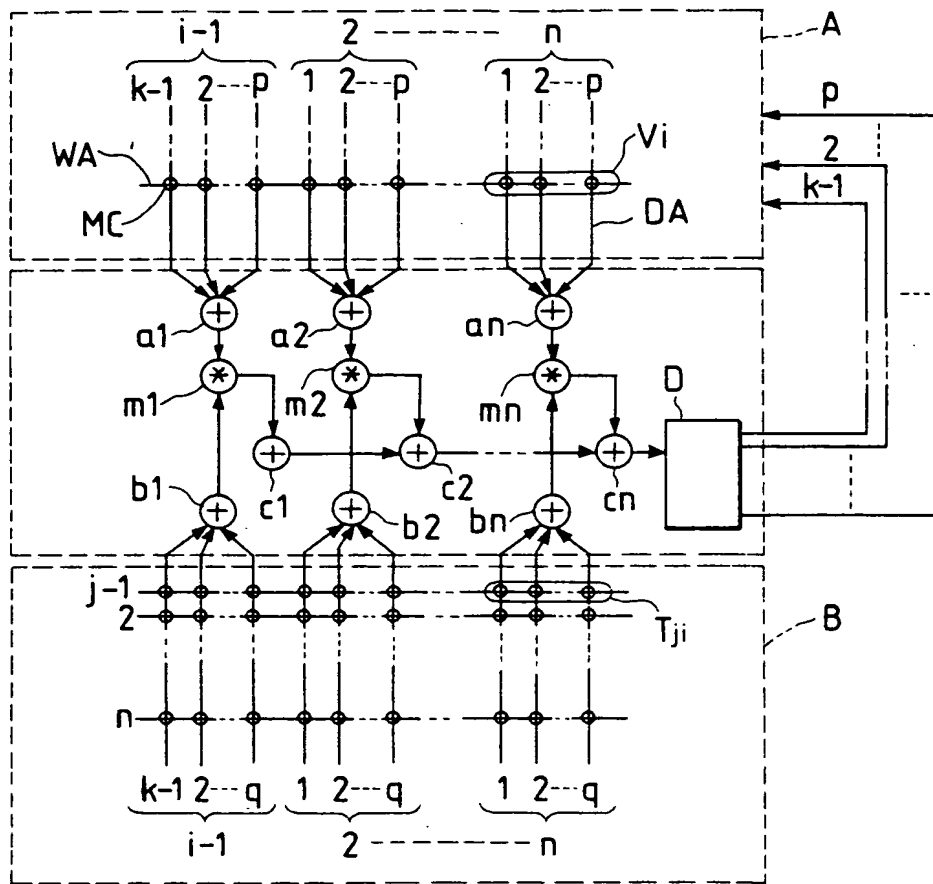


FIG. 21(b)

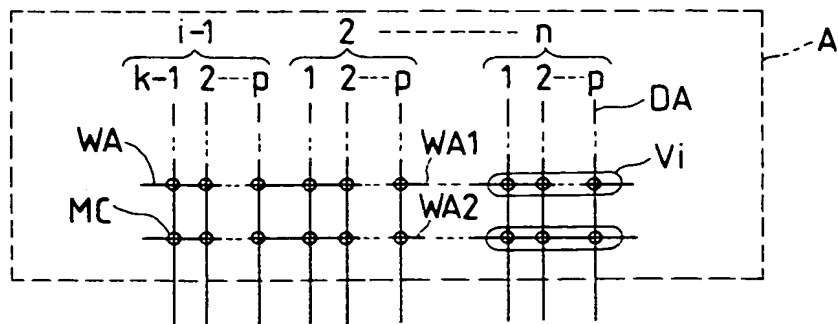


FIG. 22

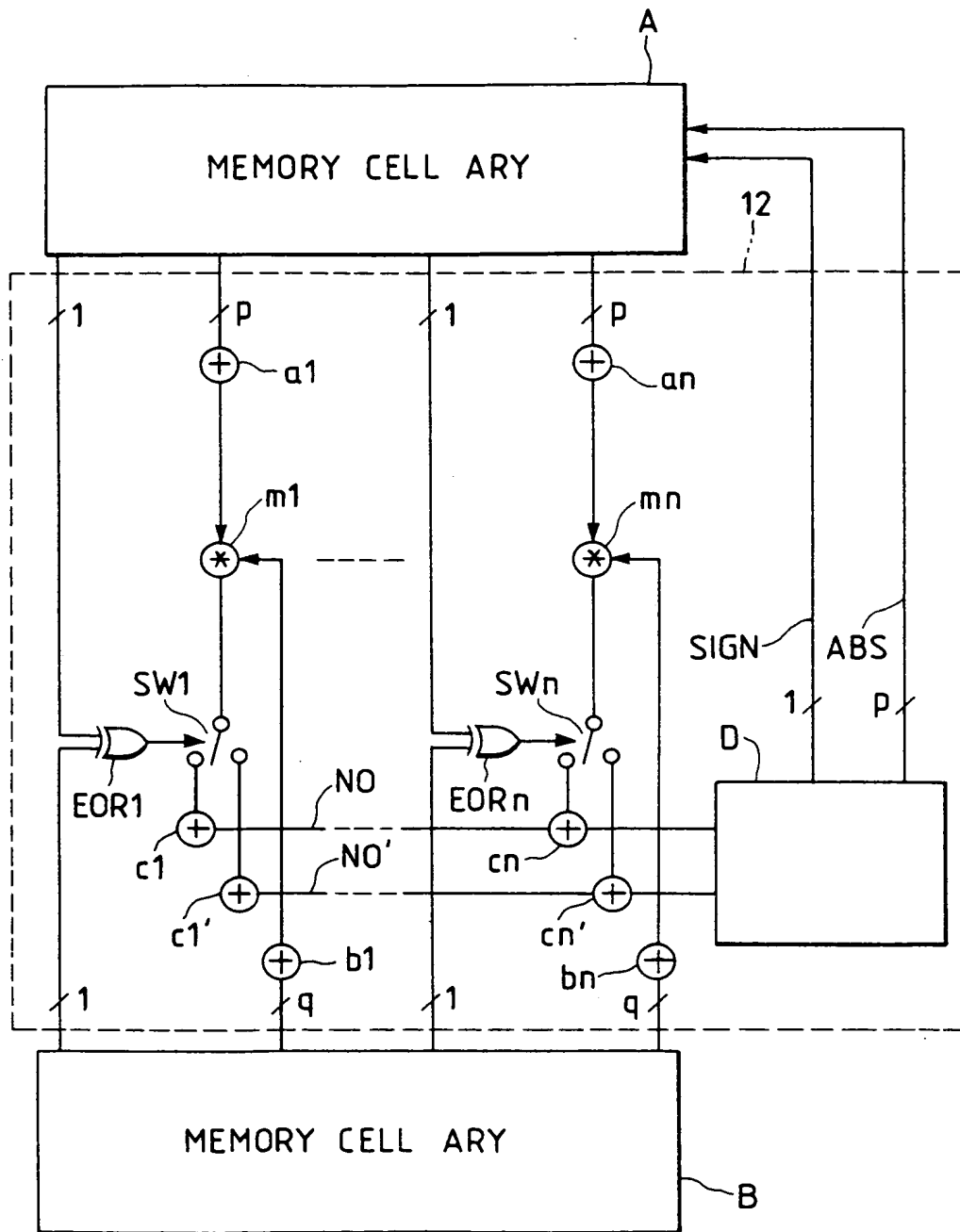


FIG. 23

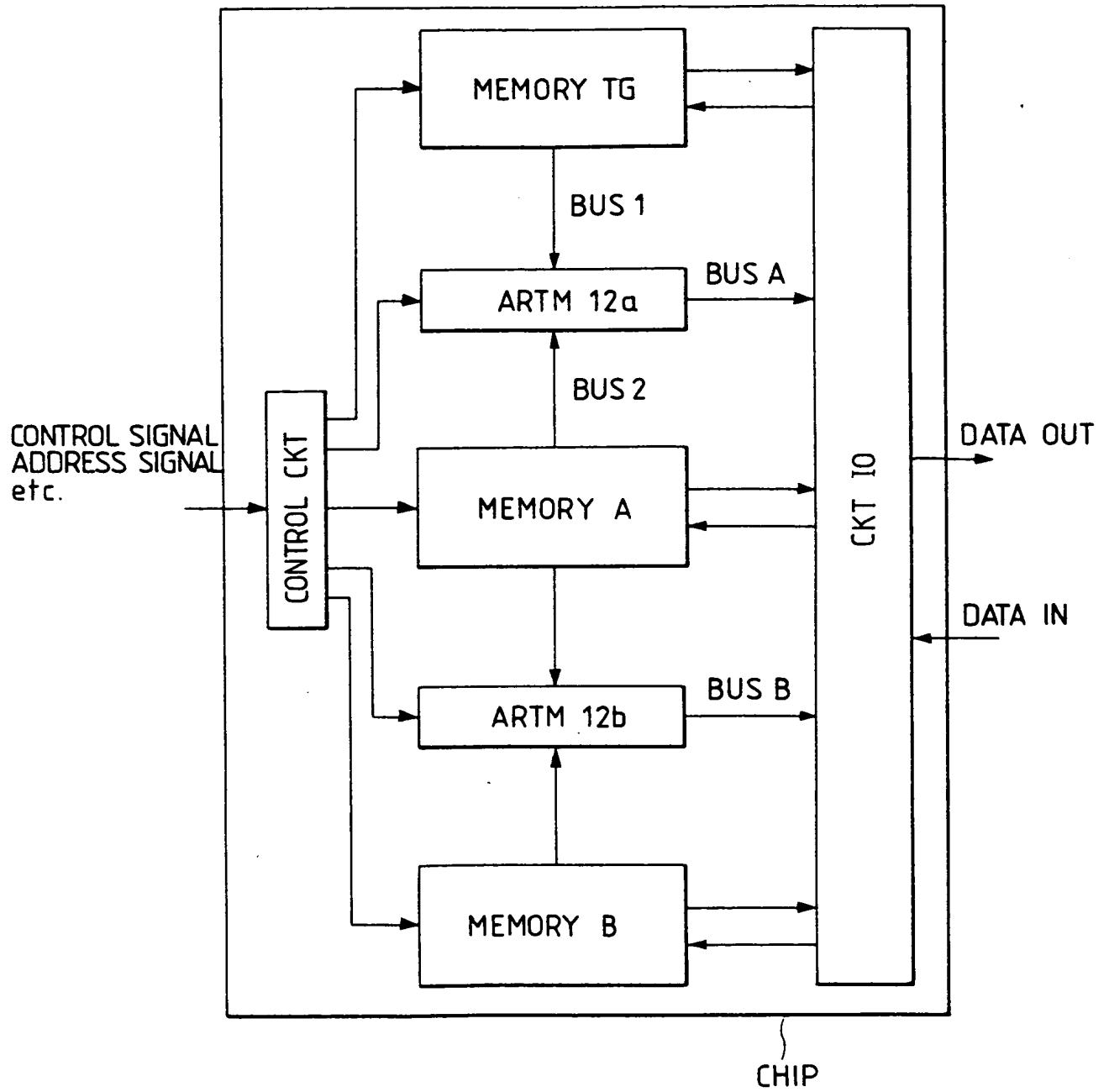




FIG. 24

FIG. 24

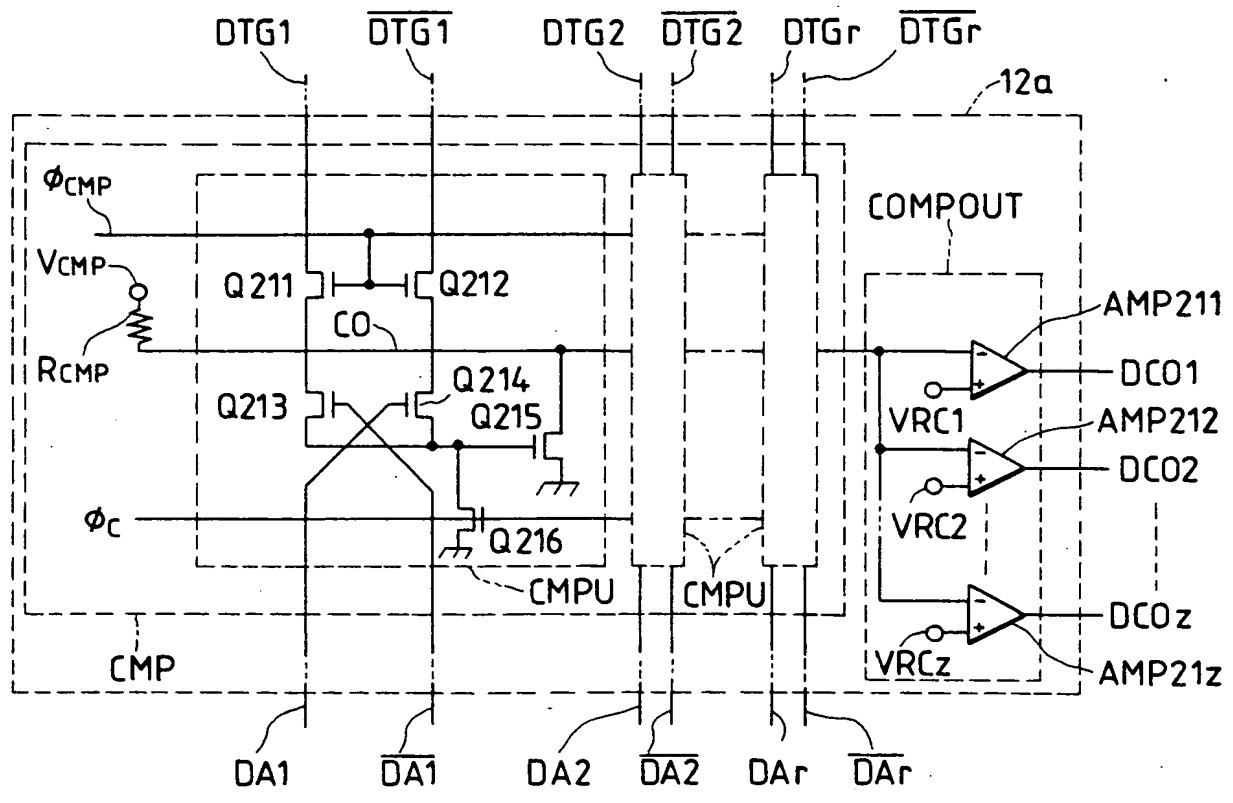


FIG. 25

